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ASLIB BOOK-LIST

QUARTERLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

1

VOLUME XI

1946

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AS51

HON. EDITOR
R. S. SCHULTZE

ASSOCIATION
OF
SPECIAL LIBRARIES AND INFORMATION BUREAUX
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PREFACE

THE main object of this quarterly (which is published on 1 March, 1 June, 1 September, 1 December) is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive, and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications and Editorial Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included.

The works recommended are set out for convenience under broad main headings and are further subdivided into the following classes:

A. Books suitable for general readers, or books treating the subject in an introductory, elementary, or general manner.

B. Books of an intermediate degree of technicality or suitable as text-books for students.

C. Books of an advanced or specially technical character.

D. Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index is issued with the last number of each year. The index for 1946 has been compiled by Mrs. W. Tatton, who has also acted as editorial assistant for Nos. 3 and 4 (succeeding Miss I. Lovatt, now Mrs. I. Scott). For details about the arrangements, &c., of the indexes, see the Author and subject index to vols. I–IX. References in the Table of contents are to pages, in the Index to numbers.

R. S. S.

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PUBLISHERS

A LIST of British publishers is enclosed with the first issue of each year. The following abbreviations are used in the *Aslib book-list*:

A. & U.: Allen & Unwin.
C. & H.: Chapman and Hall.
C.U.P.: Cambridge university press.
H.M.S.O.: His Majesty's stationery office.
L.G.: Longmans Green.
McG.-H.: McGraw-Hill.
O. & B.: Oliver and Boyd.
O.U.P.: Oxford university press.

ERRATA

156 *for* 27*s* *read* 20*s*.
552 *for* 25 Bedford Sq., *read* 23

ASLIB BOOK-LIST

Volume XI. Number 1. March 1946

CALCUTTA UNIVERSITY CENTRAL LIBRARY

GENERAL

A. Books of general interest. (See also 255)

R. S. Bates. Scientific societies in the United States. *New York: Wiley; London: C. & H. 1945. pp.246. 21s.* [The evolution during two and a half centuries of American local, state, and national scientific societies.] [*1*

Vannevar Bush. Science: the endless frontier. A report to the President of the United States. *Washington, D.C.: Government printing office; London: H.M.S.O. 1945. pp.ix.184. 30 cents.* [*2*

Great Britain. Home office. Manual of firemanship: a survey of the science of firefighting. Pt. 6a. Practical firemanship.1. *H.M.S.O. 1945. pp.iv.249, illus. 2s 6d.* [*3*

Great Britain. Treasury. The scientific civil service: reorganization and recruitment during the reconstruction period. (Cmd. 6679.) *H.M.S.O. 1945. pp.16. 3d.* [*4*

C A. Mills. Climate makes the man. *Gollancz. 1945. pp.186. 7s. 6d.* [*5*

B. Intermediate books. (See also 17, 22)

Colonial research 1944-45. 1. Colonial research committee, 2nd annual report. 2. Colonial products research council, 2nd annual report. 3. Colonial social science research council, 1st annual report. (Cmd. 6663.) *H.M.S.O. 1945. pp.32. 6d.* [*6*

C H. B. Pridham. Superiority of fire: a short history of rifles and machine guns. *Hutchinson. 1945. pp.xv.146, front., photos. 10s. 6d.* [*7*

D. Yearbooks, handbooks, &c. (See also 18, 20)

Annual register: a review of public events at home and abroad for the year 1944. ed. M. Epstein. [See annuals list A1.] *L.G. 1945. pp.xxii.506. 42s.* [*8*

League of nations. Statistical year book 1942–44. [See annuals list A5.] *A. & U. 1945. pp.315. 10s.; cloth covers, 12s. 6d.* [*9*

BIOGRAPHIES

A. Books of general interest

M. Cole. Beatrice Webb. *L.G. 1945. pp.197. 10s. 6d.* [*10*

J. J. O'Neill. Prodigal genius: the life of Nikola Tesla. *New York: Ives Washburn. 1944. pp.322. $4.75.* [*11*

B. Intermediate books. (See 66)

References throughout this issue to the 'annuals list' refer to a companion publication entitled 'Classified list of annuals and year books'.

Owing to present conditions, all prices quoted are liable to alteration.

LIBRARIANSHIP AND LIBRARY REFERENCE BOOKS

B. Intermediate books

F. G. Kirby. Libraries in secondary schools: a report on the libraries of secondary schools in Victoria, with suggestions for a post-war plan for school libraries prepared for the Australian institute of librarians (Victoria branch). *Victoria: Melbourne university press. 1945. pp.48. 1s. 6d.* [12

H. M. Lydenberg and J. Archer. The care and repair of books. 3rd ed. revised. *New York: Bowker. 1945. pp.123. $2.50.* [13

M. F. Mason. The patient's library: a guide book for volunteer hospital library service. *New York: H. W. Wilson; Glasgow: W. & R. Holmes (English distributors). 1945. pp.117. $1.* [14

S. R. Ranganathan. Classified catalogue code. 2nd ed. (Madras library association publication series no 13.) *Madras library association; London: Grafton (English distributors). 1945. pp.328. $4.50.* [15

S. R. Ranganathan. Dictionary catalogue code. (Madras library association publication series no. 14.) *Madras library association; London: Grafton (English distributors). 1945. pp.320. $4.50.* [16

United States. Civil service commission. The arrangement of public administration materials. *Washington, D.C.: Government printing office; London: H.M.S.O. 1945. pp.120. 5 cents.* [A classification scheme and list of subject headings with explanatory introductions.] [17

D. Dictionaries, yearbooks, &c.

League of nations. Monthly list of books catalogued in the library of the League of nations, 1940–1944. *A. & U. 1945. pp.579. 18s. 6d.* [18

Special libraries association: Science-technology group. Chemistry section. List of subject headings for chemistry libraries. *New York: The association. 1945. pp.x.53. $1.50* (free to institutional members of the association). [Planographed.] [19

Willing's press guide 1945. [See annuals list A16.] *Willing. 1945. pp.378. 8s. 6d.* [20

PSYCHOLOGY

A. Books of general interest. (See also 122)

C. A. Oakley. Men at work. *Hodder & Stoughton; Bickley, Kent: University of London press. 1945. pp.vii.301, 7 pl., 7 figs. 8s. 6d.* 'An account of the methods and use of industrial psychology in the factory.' [21

B. Intermediate books

E. K. Bramstedt. Dictatorship and political police. The task of control by fear. (International library of sociology and social reconstruction.) *K. Paul. 1945. pp.ix.275. 15s.* [22

J. C. Flugel. Hundred years of psychology. 5th ed. *Duckworth. 1945. pp.384. 15s.* [23

EDUCATION

A. Books of general interest. (See also 231, 244)

L. J. Barnes. Youth service in an English county. Report prepared for King George's jubilee trust, with maps and diagrams by L. F. Horrabin. *166 Piccadilly, London, W.1: The trust. 1945. pp.122. 2s. 6d.* [24

Cambridge university. Appointments board. University education and business. *C.U.P. 1945. pp.viii.77. 2s. 6d.* [25

Great Britain. Ministry of education. Youth's opportunity. Further education in county colleges. (Pamphlet no. 3.) *H.M.S.O. 1945. pp.54. 1s.* [26

Great Britain. Scottish education department. The needs of youth in these times. A report of the Scottish youth advisory committee. *Edinburgh: H.M.S.O. 1945. pp.97. 1s. 6d.* [27

N. and J. H. Higginson. Great adventure. Pioneer studies for action in education. *Bickley, Kent: University of London press. 1945. pp.136. 4s. 6d.* [28

B. Stanley. The education of junior citizens. An essay on the principles of education for club-leaders and teachers in county colleges. *Bickley, Kent: University of London press. 1945. pp.104. 3s. 6d.* [29

M. W. Thomas. Young people in industry, 1750–1945. *Nelson. 1945. pp.183. 5s.* [30

B. Intermediate books. (See also 12, 250)

Great Britain. Ministry of education. Higher technological education. Report of a special committee appointed in April 1944. *H.M.S.O. 1945. pp.31. 6d.* [31

Great Britain. Ministry of education. Welsh department. Language teaching in primary schools. (Pamphlet no. 1.) *H.M.S.O. 1945. pp.50. 9d.* [English and Welsh texts.] [32

W. Jaeger. Paideia: the ideals of Greek culture. Translated from the German manuscript by Gilbert Highet. v. 3. The conflict of cultural ideals in the age of Plato. *Oxford: Blackwell. 1945. pp.viii.374. 22s. 6d.* [33

I. Morris. The teaching of English as a second language—principles and methods. *Macmillan. 1945. pp.viii.136. 3s.* 'Deals with the teaching of English in countries such as India, the Middle East and Africa where it is taught in the junior classes of schools.' [34

Sir P. Nunn. Education—its data and first principles. 3rd ed. revised and partly rewritten. *E. Arnold. 1945. pp.283. 7s. 6d.* [35

D. Dictionaries, yearbooks, &c.

Youth service handbook 1945–46. ed. Dermot O'C. Grubb. *W. Walker & sons. 1945. pp.xxx.145. 6s. 6d.* [36

ECONOMICS

General

A. Books of general interest. (See also 10, 25, 229)

H. E. Evitt. Exchange and trade control. *Pitman. 1945. pp.102. 6s. 6d.* [37

Great Britain. Board of trade. Trade of the United Kingdom during January–June 1945. *H.M.S.O. 1945. pp.ix.135. 2s. 6d.* [38

Great Britain. Department of overseas trade. Review of commercial conditions. June 1945. *H.M.S.O. 1945.* Turkey. *pp.44.* Canada. *pp.48. 1s. each.* [39

Mass observation. Britain and her birth-rate. *John Murray (for the Advertising service guild). 1945. pp.244. 21s.* [40

G. Williams. Women and work. (New democracy series.) *Nicholson & Watson. 1945. pp.128, illus. 5s.* [41

H. Wilson. New deal for coal. *Contact publications. 1945. pp.264. 8s.* [42

B. Intermediate books. (See also 6, 17, 90, 171, 201)

Great Britain. Colonial office. West India royal commission report. (Cmd. 6607.) *H.M.S.O. 1945. pp.xviii.480, 16 pl., fold map. 7s. 6d.* [On the economic, social, and administrative problems.] [43

Great Britain. Colonial office. West India royal commission, 1938–39: statement of action taken on the recommendations. (Cmd. 6656.) *H.M.S.O. 1945. pp.108. 2s.* 'Details showing to what extent the recommendations contained in Cmd. 6607 have been carried out.' [44

S. E. Harris, *ed.* Economic reconstruction. *McG.-H. 1945. pp.ix.424. $3.75.* [45

J. R. and U. K. Hicks. The incidence of local rates in Great Britain. (National institute of economic and social research: occasional paper no. 8.) *C.U.P. 1945. pp.viii.64. 6s.* [46

K. E. Knorr. Tin under control. *Calif.: Stanford university—Food research institute. 1945. pp.314, illus. 21s.* [On world tin economy, the manufacturing of Conderized steel plate and lacquered black plate, the processing of electrolytic and hot-dipped tin-plate, and the advantages of tin as a food container.] [47

L. von Mises. Bureaucracy. *Hodge. 1945. pp.148. 8s. 6d.* [48

C. Advanced or specialized books. (See also 70, 239)

A. G. B. Fisher. Economic progress and social security. *Macmillan. 1945. pp.xii.362. 18s.* [49

Great Britain. Board of trade. Accounts relating to the import trade and the re-export trade of the United Kingdom for each of the years 1938 to 1944. *H.M.S.O. 1945. pp.ix.105. 2s.* 'This is the first detailed statement issued since the outbreak of war.' [50

S. Kuznets. National product in wartime. *New York: National bureau of economic research. 1945. pp.156. $2.* [51

League of nations. Commercial policy in the post-war world: report of the Economic and Financial committees. *A. & U. 1945. pp.124. 5s.* [52

M. Polanyi. Full employment and free trade. *C.U.P. 1945. pp.x.155. 8s. 6d.* [53

W. A. Roberts. State taxation of metallic deposits. (Harvard economic studies v. 77.) *Cambridge, Mass. Harvard university press. 1944. pp.400. 27s.* [54

D. Dictionaries, yearbooks, &c. (See also 9, 160, 188, 217)

League of nations. World economic survey, 1942–44. [See annuals list A6.] *A. & U. 1945. pp.299. 10s.* [55

BANKING AND FINANCE

A. Books of general interest

C. R. Robson. Are your savings safe? *Staples press. 1945. pp.32. 1s.* 'A simplified account of the operation of the British monetary and banking

system, with special bearing on the control of the volume of credit in the system through the Bank of England.' [56

B. Intermediate books. (See also 64)

Baron R. A. de Lynden. If money were understood. *Hutchinson. 1945. pp.96. 6s.* [57

C. Advanced or specialized books

T. Barna. Redistribution of income through public finance in 1937. *O.U.P. 1945. pp.302. 18s.* [58

League of nations. The League of nations reconstruction schemes in the inter-war period. *A. & U. 1945. pp.171. 5s.* 'Theory and practice of international loans 1920–39.' [59

D. Dictionaries, yearbooks, &c.

Directory of directors 1945. [See annuals list A36.] *T. Skinner. 1945. pp.680. 35s.* [60

Stock exchange official year book 1945. [See annuals list A46.] *T. Skinner. 1945. pp.3350. 80s.* [61

INDUSTRY

A. Books of general interest. (See also 21)

'Colliery manager.' *pseud.* Coal. Facts about an unknown industry. *C. & H. 1945. pp.100, figs., tables. 2s. 6d.* [62

B. Intermediate books. (See also 131, 210, 211)

D. Cousins. Business, finance and accounts. *Gee. 1945. pp.156. 15s.* [63

Great Britain. Board of trade. Report of the committee on company law amendment. (Cmd. 6659.) *H.M.S.O. 1945. pp.115. 2s.* [64

C. Advanced or specialized books. (See also 133, 138, 214)

Great Britain. Board of trade. Report of the Census of production committee, 26 September 1945. *H.M.S.O. 1945. pp.25. 6d.* [The committee was appointed in June 1945 to consider 'what additional information should be collected at future censuses of production'.] [65

MATHEMATICS

B. Intermediate books

H. W. Turnbull. The mathematical discoveries of Newton. *Blackie. 1945. pp.vi.68, front. 5s.* [66

H. E. Wolfe. Introduction to non-euclidean geometry. *New York: Dryden press. 1945. pp.xiii.247. $4.50.* 'Intended as a college textbook for this subject' [67

C. Advanced or specialized books

J. L. Coolidge. A history of the conic sections and quadric surfaces. *O.U.P. 1945. pp.xi.214. 21s.* 'An historical account of the development of the theory from Menaechmus to the 20th century.' [68

G. H. Hardy and E. M. Wright. An introduction to the theory of numbers. 2nd edition. *O.U.P. 1945. pp.xvi.407. 25s.* [69

M. Kraitchik. Alignment charts: construction and use. *New York: Van Nostrand. 1944. pp.91. 15s.* [Alignment charts represent a mathematical law in graphic form, and can be used to solve a particular equation which has to be constantly repeated using different sets of values for the variables.] [70

ASTRONOMY

A. Books of general interest

E. A. Beet. A text book of elementary astronomy. *C.U.P. 1945. pp.x.110, front., 24 pl., 68 figs. 8s. 6d.* [71

PHYSICS

A. Books of general interest. (See also 11)

H. de W. Smyth. A general account of the development of methods of using atomic energy for military purposes under the auspices of the United States government, 1940–1945. *Washington, D.C.. Government printing office; London: H.M.S.O. 1945. pp.vii.182. 35 cents.* [72

A. K. Solomon. Why smash atoms? *West Drayton: Penguin books. 1945. pp.160, illus. 9d.* [Reprint of a book published in America, 1940.] [73

E. Intermediate books

A. Einstein. The meaning of relativity. 2nd ed. *Princeton university press. 1945. pp.135. $2.* [An appendix of about 25 pages discusses advances made in the theory of relativity since 1921.] [74

B. K. Johnson. Practical optics. *Hatton press. 1945. pp.189. 15s.* [75

C. Advanced or specialized books. (See also 80, 103, 104, 152, 205)

A. G. Ingalls, *ed.* Amateur telescope making: advanced. *New York: Munn. 1944. pp.647. 30s.* [76

N. O. Myklestad. Vibration analysis. *McG.-H. 1944. pp.300. 21s.* 'Practical applications to torsional vibration, bending-torsion vibration, and wing flutter, are given.' [77

J. Yarwood. High vacuum technique: theory, practice, industrial applications and properties of materials. 2nd ed. *C. & H. 1945. pp.viii.140. 12s. 6d.* [78

CHEMISTRY AND CHEMICAL TECHNOLOGY

B. Intermediate books. (See also 90, 203)

M. E. Weeks. Discovery of the elements. 5th ed. revised. *Easton, Pa.: Journal of chemical education. 1945. pp.578. $4.* [79

C. Advanced or specialized books. (See also 70 91, 103, 104, 115, 138, 187)

R. E. Burk and O. Grummitt, *edd.* Advances in nuclear chemistry and theoretical organic chemistry. (Frontiers in chemistry v. 3.) *New York: Interscience. 1945. pp.viii.165. 21s.* [80

G. D. Clift and B. T. Fedoroff. A manual for explosives laboratories. v. 1. 4th ed. v. 2. Explosive compounds and allied substances: a descriptive list. v. 3. Comprising supplements number 1 and 2. *Philadelphia: Lefax society. 1943–4. pp.224 + 266 + 235. $5.75.* [81

E. A. Evans. Lubricating and allied oils. 3rd edition. *C. & H. 1945. pp.ix.210. 15s.* [82

H. W. Harvey. Recent advances in the chemistry and biology of sea water. *C.U.P. 1945. pp.viii.164, 29 figs. 10s. 6d.* [83

J. H. Nelson and H. Silman. The application of radiant heat to metal finishing. 2nd ed. revised. *C. & H. 1945. pp.104, 45 figs. 8s. 6d.* [84

F. D. Snell and F. M. Biffen. Commercial methods of analysis. *McG.-H. 1944. pp.753. 36s.* [85

W. Swietoslawski. Ebulliometric measurements. *New York: Reinhold. 1945. pp.xi.228. 24s.* [86

A. L. and K. B. Winton. The analysis of foods. *New York: Wiley; London: C. & H. 1945. pp.xii.999, 208 illus. $12.* [87

D. Dictionaries, yearbooks, &c. (See also 19, 197, 198)

Chemists' year book 1945. ed. E. Hope. [See annuals list A67.] *Manchester: Sherratt & Hughes. 1945. pp.1255. 20s.* [88

J. E. Faraday. Faraday's encyclopedia of hydrocarbon compounds. Replacement—addition issue of C_1 to C_5. *Manchester: Chemindex. 1945. pp.[64]. 15s.* [89

FUEL TECHNOLOGY

A. Books of general interest. (See 42, 62)

B. Intermediate books

Great Britain. Ministry of fuel and power. Report of the committee of inquiry on the gas industry, 1 November 1945. (Cmd. 6699.) *H.M.S.O. 1945. pp.vi.57, maps in pocket, tables. 2s.* [90

C. Advanced or specialized books. (See also 142)

Institute of petroleum. Tables for the measurement of oil. *The institute. 1945. pp.320. 25s.* 'Tables of properties (e.g. sp. gr.) of oils.' [91

D. Dictionaries, yearbooks, &c.

Oil and petroleum year book 1945. ed. W. E. Skinner. [See annuals list A77.] *W. E. Skinner. 1945. pp.296. 12s. 6d.* [92

GEOLOGY AND MINERALOGY

A. Books of general interest

Society for the promotion of nature reserves. Nature reserves investigation committee: Geological sub-committee. National geological reserves in England and Wales. (Memorandum no. 5.) *British museum (natural history): The society. 1945. pp.iv.42, map. 1s. 6d.* [93

B. Intermediate books

F. G. H. Blyth. Geology for engineers. 2nd ed. *E. Arnold. 1945. pp.340, 16 pl., 141 diagrs. 21s.* [94

Great Britain. Geological survey. The geology of the northern part of the South Staffordshire coalfield (Cannock Chase region). By G. H. Mitchell. Palaeontology. By C. J. Stubblefield, with a section on fossil plants by R. Crookall. (Wartime pamphlet no. 43.) *The survey. 1945. pp.50. 2s. 3d.* [95

Great Britain. Geological survey. Rock wool. By E. M. Guppy and J. Phemister. *H.M.S.O. 1945. pp.ii.46, 32 tab. 9d.* [96

Great Britain. Geological survey. High-grade silica rocks of the Scottish highlands and islands. By J. G. C. Anderson. 2nd ed. (Wartime pamphlet no. 7.) *The survey. 1945. pp.32. 1s. 6d.* [97

Great Britain. Geological survey. Limestones of Scotland, area 4, south-west highlands and islands. By J. G. C. Anderson, with analyses by A. Muir. 2nd ed. (Wartime pamphlet no. 13.) *The survey. 1945. pp.26. 1s. 3d.* [*98*

Great Britain. Geological survey. Scottish sources of alkali feldspar. By T. Robertson. (Wartime pamphlet no. 44.) *The survey. 1945. pp.35, illus. 1s. 9d.* [*99*

Great Britain. Geological survey. The mineral resources of the Lothians. By A. G. MacGregor. (Wartime pamphlet no. 45.) *The survey. 1945. pp.43, illus. 2s.* [*100*

C. Advanced or specialized books

F. E. Zeuner. The pleistocene period: its climate, chronology and faunal successions. (Ray society, vol. 130.) *Quaritch. 1945. pp.xii.322. 42s.* [*101*

D. Dictionaries, yearbooks, &c.

C. M. Rice. Dictionary of geological terms. (Exclusive of stratigraphic formations and paleontologic genera and species.) *Ann Arbor, Mich.: Edwards bros. 1945. pp.464. 36s.* [*102*

CRYSTALLOGRAPHY

C. Advanced or specialized books

C. W. Bunn. Chemical crystallography: an introduction to optical and X-ray methods. *O.U.P. 1945. pp.422. 25s.* [*103*

W. H. Zachariasen. Theory of X-Ray diffraction in crystals. *New York: Wiley. 1945. pp.vii.265. 24s.* [*104*

OCEANOGRAPHY

C. Advanced or specialized books. (See 83)

METEOROLOGY

A. Books of general interest. (See also 5)

W. Gorczynski. Comparison of the climates of the United States and Europe (with special attention to Poland and her Baltic coast). (Polish institute series no. 7.) *New York: Polish institute of arts and sciences in America. 1945. pp.288, illus. $5.* [*105*

C. Advanced or specialized books

J. Holmboe, G. E. Forsythe and W. Gustin. Dynamic meteorology. *New York: Wiley; London: C. & H. 1945. pp.378. $4.50.* [*106*

BIOLOGY

A. Books of general interest. (See also 167)

T. Barbour. That vanishing Eden. *Boston: Little. 1944. pp.250. $3.* [A popular account of the vegetation, animals, prehistory, and aborigines of Florida.] [*107*

R. S. R. Fitter. London's natural history. (New naturalist series.) *Collins. 1945. pp.282, 93 pl. (52 col.), diagrs., 12 maps. 16s.* [*108*

F. L. Fitzpatrick and C. L. Stiles. The biology of flight. *A. & U. 1945. pp.vi.162. 8s. 6d.* [The aspects dealt with include aviation medicine, the spread of disease by air travel, and the flight of birds and insects.] [*109*

B. Intermediate books. (See also 119, 180)

W. A. Roach and W. O. Roberts. Further work on plant injection for diagnostic and curative purposes. (Imperial bureau of horticulture: technical communication no. 16.) *Aberystwyth: Imperial agricultural bureaux. 1945. pp.12. 1s. 6d.* [110

C. Advanced or specialized books. (See also 83, 113, 120, 128, 183)

E. Altenburg. Genetics. *New York: Holt. 1945. pp.xii.452. $3.20.* [111

H. Burrows. Biological actions of sex hormones. *C.U.P. 1945. pp.514. 42s.* [112

BIOCHEMISTRY

C. Advanced or specialized books

E. Landsteiner. The specificity of serological reactions. 2nd ed. revised. *Cambridge, Mass.: Harvard university press; London: O.U.P. 1945. pp.310. $5.* [113

F. F. Nord and C. H. Werkman, *edd.* Advances in enzymology and related subjects of biochemistry. v. 5. *New York: Interscience. 1945. pp.vii.268. $5.50.* [114

E. I. Rabinowitsch. Photosynthesis and related processes. v. 1. Chemistry of photosynthesis, chemosynthesis and related processes in vitro and in vivo. *New York: Interscience. 1945. pp.xiv.599. $8.50.* [115

M. G. Sevag. Immuno-catalysis. *Springfield, Ill.: Thomas; London: Baillière. 1945. pp.xv.272. $4.50.* [116

Wayne William Umbreit and others. Manometric techniques and related methods for the study of tissue metabolism. *Minneapolis: Burgess publishing co. 1944. pp.198, illus. $3.50.* [117

BOTANY

A. Books of general interest. (See 167)

B. Intermediate books. (See also 110)

G. R. A. Bisby. An introduction to the taxonomy and nomenclature of fungi. *Kew, Surrey: Imperial mycological institute. 1945. pp.vii.117. 5s.* [118

J. G. Horsfall. Fungicides and their action. *Waltham, Mass.: Chronica botanica. 1945. pp.239, 19 illus. $5.* [119

C. Advanced or specialized books

C. D. Darlington and E. K. Janaki Ammal. Chromosome atlas of cultivated plants. *A. & U. 1945. pp.397, 2 maps. 12s. 6d.* [120

D. Dictionaries, yearbooks, &c. (See 197)

ZOOLOGY

A. Books of general interest

E. B. Ford. Butterflies. (New naturalist series.) *Collins. 1945. pp.368, 80 pl. (56 col.), 9 diagr., 42 maps. 16s.* [121

E. C. Noble. The nature of the beast. *New York: Doubleday. 1945. pp.224. $2.75.* 'A popular account of animal psychology from the point of view of a naturalist.' [122

B. Intermediate books

B. A. Bensley. Practical anatomy of the rabbit. *Philadelphia: Blakiston. 1945. pp.xii.358. $3.50.* [*123*

T. D. Carter, J. E. Hill and G. H. H. Tate. Mammals of the Pacific world. *Macmillan. 1945. pp.xvi.227, 69 illus. 15s.* [*124*

H. G. Deignan. The birds of Northern Thailand (Bulletin of the U.S. National museum no. 186.) *Washington, D.C.: U.S. National museum. 1945. pp.615. $1.25.* [*125*

D. Lack. The Galapagos finches (*geospinzinae*) A study in variation. (Occasional paper 21.) *San Francisco: California university academy of sciences. 1945. pp.vii.151, illus. 15s.* [*126*

A. S. Romer. Vertebrate palaeontology. 2nd ed. revised. *Chicago university press; London: C.U.P. 1945. pp.viii.687, illus. 35s.* [*127*

C. Advanced or specialized books. (See also 101, 173)

M. J. D. White. Animal cytology and evolution. *C.U.P. 1945. pp.viii.376, illus. 36s.* [*128*

D. Dictionaries, yearbooks, &c.

J. L. Peters. Checklist of birds of the world. v. 5. *Cambridge, Mass.: Harvard university press; London: O.U.P. 1945. pp.xi.306. 28s.* [*129*

MEDICINE

General

A. Books of general interest. (See 109)

Industrial health and safety

A. Books of general interest

Great Britain. Medical research council: Industrial health research board. Why is she away? The problem of sickness among women in industry. *H.M.S.O. 1945. pp.22, charts. 4d.* [*130*

B. Intermediate books

Great Britain. Ministry of labour and national service. Interim report of the Joint advisory committee on the cotton industry. Mule spinners' cancer and automatic wiping-down motions. *H.M.S.O. 1945. pp.8. 2d.* [*131*

C. Advanced or specialized books. (See also 214)

Great Britain. Medical research council. Chronic pulmonary disease in South Wales coalminers. 3. Experimental studies (A–E). (Special report no. 250.) *H.M.S.O. 1945. pp.94. 5s.* [*132*

H. H. Judson and J. M. Brown. Occupational accident prevention. *New York: Wiley; London: C. & H. 1944. pp.228. $2.75.* [*133*

Public health

B. Intermediate books. (See 14)

Veterinary science

B. Intermediate books. (See 171)

NUTRITION

A. Books of general interest

United States. Department of agriculture. Family food consumption in the United States. (Miscellaneous publication no. 550.) *Washington, D.C.: Government printing office; London: H.M.S.O. 1944. pp.vi.157. 20 cents.* [*134*

B. Intermediate books. (See 47, 172, 178)

C. Advanced or specialized books. (See 87)

ENGINEERING

General

A. Books of general interest

E. J. Larkin. Elements of workshop training. A textbook for works apprentices. *Pitman. 1945. pp.255. 12s. 6d.* [*135*

A. E. Talbot. Heat engine calculations. *Pitman. 1945. pp.90. 3s. 6d.* [*136*

United States. Office of scientific research and development. Radar: a report on science at war. *Washington, D.C.: Government printing office; London: H.M.S.O. 1945. pp.50. 1s.* [*137*

B. Intermediate books. (See 7, 31)

C. Advanced or specialized books. (See also 70, 77, 78, 82, 84, 133)

D. P. Eckman. Principles of industrial process control. *New York: Wiley; London: C. & H. 1945. pp.223. 21s.* [The theory of automatic control.] [*138*

C. Jaques. Meters for measuring water and industrial fluids. *Spon. 1945. pp.80. 12s. 6d.* [*139*

C. W. Muhlenbruch. Testing of engineering materials. *New York: Van Nostrand. 1944. pp.195. 17s.* [*140*

R. F. Raber and F. W. Hutchinson. Refrigeration and air conditioning engineering. *New York: Wiley; London: C. & H. 1945. pp.291. 24s.* [A theoretical treatise—not descriptive.] [*141*

'Steam engineer.' Fuel saving charts. *J. D. Troup ltd. 1945. pp.25. 4s.* 'These charts, with explanatory matter, are on such details as fuel losses by flue gases and by boiler-scale.' [*142*

D. Dictionaries, yearbooks, &c. (See also 191)

G. S. Brady. Materials handbook. An encyclopedia for purchasing agents, engineers, executives and foremen. 5th ed. *Mc.G-H. 1944. pp.vii.766. 30s.* [*143*

J. H. Keenan and J. Kaye. Thermodynamic properties of air. *New York: Wiley; London: C. & H. 1945. pp.71. 13s. 6d.* 'Thirteen tables for the computation of thermodynamic processes for air and gases.' [*144*

Aeronautical

A. Books of general interest. (See 109)

B. Intermediate books. (See also 162)

P. H. Wilkinson. Aircraft engines of the world, 1945. *216 East 45th Street, New York: The author; London: Pitman. 1945. pp.352, illus. 45s.* [*145*

C. Advanced or specialized books. (See also 152)

A. A. Arnhym. Comfortization of aircraft. *New York: Pitman. 1944. pp.342. 45s.* 'Deals with air supply, seating, berthing, lighting, heating, sound-proofing, etc.' [*146*

R. N. Greif. Military and commercial aircraft hydraulics. *New York: Pitman. 1944. pp.110. 12s.* [*147*

CIVIL

A. Books of general interest. (See 208)

B. Intermediate books. (See 94, 210)

C. Advanced or specialized books. (See also 139, 212, 215, 216)

G. A. Hool and W. S. Kinne, *edd.* Reinforced concrete and masonry structures. 2nd ed. revised by R. R. Zipprodt. *McG.-H. 1944. pp.824. 36s.* [*148*

British standards institution. [*Standards.*] (See 194, 220)

ELECTRICAL

A. Books of general interest. (See 11, 137)

B. Intermediate books

G. W. Stubbings. Diseases of electrical machinery: a textbook for the use of electricians, apprentices and power plant engineers. 2nd ed. *Spon. 1945. pp.ix.229, 51 figs. 10s. 6d.* [*149*

E. O. Taylor. Distribution and utilization of electricity. *Blackie. 1945. pp.162, illus. 6s.* [*150*

C. Advanced or specialized books. (See also 78, 212)

Q. B. Newman. Marine electric power. 3rd edition. *New York: Simmons-Boardman. 1945. pp.237. 15s.* [*151*

Sperry gyroscope co. Klystron technical manual. *New York: The company. 1944. pp.91. 6s.* 'On the principles of velocity modulation tubes for students of electronics.' [*152*

INTERNAL COMBUSTION ENGINES

C. Advanced or specialized books

P. M. Heldt. High-speed combustion engines: design, production, tests. 12th ed. of *The gasoline motor. Wyack, N.Y.: The author. 1944. pp.766. 45s.* [*153*

MARINE—SHIPS AND SHIPBUILDING

A. Books of general interest

C. D. Lane. American paddle steamboats. *New York: Coward-McCann. 1943. pp.243. 36s.* [*154*

C. Advanced or specialized books. (See 151)

MECHANICAL

B. Intermediate books

W. C. Durney. Capstan and turret lathes: their setting and control. *Pitman. 1945. pp.vi.170, 287 figs., tables. 12s. 6d.* [*155*

C. Advanced or specialized books. (See also 147, 212)

P. Grodzinski. Diamond tools. *New York: Smit; London: N.A.G. press. 1944. pp.379. 27s.* [*156*

H. P. Manly. Drake's refrigeration service manual: an instruction and reference book covering maintenance, trouble shooting and repair, domestic and commercial systems. *Chicago: F. J. Drake & co. 1945. pp.308. 12s.* [*157*

D. Dictionaries, yearbooks, &c.

Fowler's mechanical engineer's pocket book 1946. ed. W. H. Fowler. [See annuals list A138.] *Manchester: Scientific publishing co. 1946. pp.496. 4s.* [*158*

MINING

A. Books of general interest. (See 42, 62)

C. Advanced or specialized books. (See also 54, 132)

D. R. Mitchell, *ed.* Coal preparation. *New York: American institute of mining and metallurgical engineers. 1943. pp.720. 36s.* [*159*

D. Dictionaries, yearbooks, &c.

Colliery year book and coal trades directory 1945. ed. E. G. King. [See annuals list A145.] *Cassier. 1945. pp.992, 78 illus. 25s.* [*160*

WIRELESS

A. Books of general interest

K. R. Sturley. Radio receiver design. Pt. 2. *C. & H. 1945. pp.xv.480, illus. 28s.* 'Deals with audio frequency amplifiers, power supplies, receiver measurements, television and frequency modulated receiver design.' [*161*

B. Intermediate books

Great Britain. Ministry of civil aviation. Report of the 3rd conference on radio for civil aviation. *H.M.S.O. 1945. pp.126. 5s.* [*162*

C. Advanced or specialized books. (See 152)

AGRICULTURE

GENERAL

A. Books of general interest. (See also 207)

L. F. Easterbrook, *ed.* The future of agriculture. *Todd. 1944. pp.48. 7s. 6d.* [*163*

Sir A. Howard (assisted by Louise E. Howard, Lady Howard). Farming and gardening for health or disease. *Faber. 1945. pp.282. 12s. 6d.* [On the importance of the conservation and replacement of the humus content of the soil.] [*164*

H. J. Massingham, *ed.* The natural order. Essays in the return to husbandry. *Dent. 1945. pp.178. 7s. 6d.* [A symposium of fourteen essays on the objectives and technique of British agriculture.] [*165*

A. J. Simons. The vegetable grower's handbook. *West Drayton: Penguin books. 1945. 2 v. pp.224+224, illus. 9d. + 9d.* [*166*

K. M. Smith. Virus diseases of farm and garden crops. *Worcester: Littlebury. 1945. pp.111, 30 illus. 10s. 6d.* [*167*

B. Intermediate books. (See also 110)

N. B. Bagenal, *ed.* Fruitgrowing, modern cultural methods. 2nd ed. revised. *Ward, Lock. 1945. pp.416, illus. 30s.* [*168*

R. Bush. Frost and the fruit grower. *Cassell. 1945. pp.119, illus. 10s. 6d.* [*169*

E. H. Graham. Natural principles of land use. *O.U.P. 1944. pp.xiii.274, 32 pl. 16s.* 'On the application of biological principles and methods to the management of all types of rural land.' [*170*

Great Britain. Colonial office. West India royal commission. Report on agriculture, fisheries, forestry and veterinary matters. By F. L. Engledow. (Cmd. 6608.) *H.M.S.O. 1945. pp.viii.235, 22 tab. 3s. 6d.* [*171*

Sir A. D. Hall. The feeding of crops and stock. 3rd ed. Pt. 1. The plant. Pt. 2. Soils and fertilizers. Revised by W. G. Ogg. Pt. 3. The nutrition of animals and man. Revised by John Hammond. *John Murray. 1945. pp.x.120 + x. 114 + xii.116, illus. 12s.* [*172*

C. Advanced or specialized books. (See also 120, 195, 196, 239)

H. C. Gough. A review of the literature on soil insecticides. *Imperial institute of entomology. 1945. pp.iii.161. 10s.* [*173*

Great Britain. Imperial bureau of pastures and forage crops. The establishment and early management of sown pastures. (Bulletin no. 34.) *Aberystwyth: Imperial agricultural bureaux. 1945. pp.xi.210. 7s.* [*174*

D. Dictionaries, yearbooks, &c. (See also 198)

A. K. Y. N. Aiyer. Field crops of India. *Bangalore: Government press. 1944. pp.552. 15 rupees.* [*175*

AGRICULTURAL ECONOMICS

A. Books of general interest

C. S. Orwin. Problems of the countryside. (Current problems series no. 26.) *C.U.P. 1945. pp.vi.112. 3s. 6d.* [*176*

B. Intermediate books

Cambridge university. Department of agriculture: Farm economics branch. Changes in the economic organization of agriculture: a comparative study of conditions in the eastern counties of England between an identical sample of farms in 1938–39, 1939–40, 1940–41, 1941–42, 1942–43. (Report no. 29.) *Cambridge: The department. 1945. pp.108, front., map, tables. 7s. 6d.* [*177*

T. W. Schultz, *ed.* Food for the world. (Harris foundation lectures, Chicago university.) *Chicago university press. 1945. pp.xiv.353. $3.75.* [*178*

C. Advanced or specialized books

Land utilization survey of Britain. The land of Britain. Part 15. Caithness. By S. W. E. Vince. *1944. pp.59–122. 4s.* Part 16–18. The Lothians. By P. M. Scola. *1944. pp.125–218. 4s.* Part 19. Dumfriesshire. By J. A. McIver. *1945. pp.221–58. 4s.* Part 39. Carmarthenshire. By B. L. Davies and H. Miller. *1944. pp.499–559. 4s.* Part 52. Northumberland. By L. Dudley Stamp. *1945. pp.421–86. 4s.* Part 51. Yorkshire (North Riding). By S. W. Wooldridge. *1945. pp.351–417. 4s. Bude Haven, Cornwall: Geographical publications.* [*179*

LIVESTOCK

B. Intermediate books

Great Britain. Ministry of agriculture and fisheries. Fertility and animal breeding. By F. H. A. Marshall and J. Hammond. (Bulletin no. 39.) 6th ed. revised. *H.M.S.O. 1945. pp.ii.44. 1s. 3d.* [*180*

E. W. Lloyd. Sussex cattle. *Lewes: Sussex express and county herald (for the Sussex herdbook society).* [*1945.*] *pp.xl.106. 10s. 6d.* [An official account of the history of the breed, the present activities of the breed society, the characteristics of the breed, herd management, and the popularity of the breed in South Africa.] [*181*

FORESTRY

C. Advanced or specialized books

Great Britain. Department of scientific and industrial research: Forest products research board. Swelling stresses and gels. (Special report no. 6.) *H.M.S.O. 1945. pp.52, 20 figs. 1s.* [*182*

R. H. Richens. Forest tree breeding and genetics. (Imperial agricultural bureaux: joint publication no. 8.) *Aberystwyth: Imperial agricultural bureaux. 1945. pp.79. 5s.* [*183*

SOIL SCIENCE

A. Books of general interest

Sir A. D. Hall. The soil: an introduction to the scientific study of the growth of crops. 5th ed. completely revised by G. W. Robinson. *John Murray. 1945. pp.xvi.322, illus. 9s.* [*184*

METALLURGY

A. Books of general interest. (See 208)

B. Intermediate books. (See 47)

C. Advanced or specialized books. (See also 54, 103, 104)

American foundrymen's association. Foundry sand testing handbook. 5th ed. revised. *Chicago: The association. 1945. pp.vii.134, illus. $3.50.* [*185*

F. W. Curtis. High-frequency induction heating. *McG.-H. 1944. pp.231. 16s. 6d.* 'For the user of induction-heating equipment in relation to the heating of metal parts.' [*186*

Great Britain. Ministry of supply. Polarographic and spectrographic analysis of high purity zinc and zinc alloys for die casting. An account of investigations carried out by a British standards institution panel of the Non-ferrous industry committee, 1941–1944. *H.M.S.O. 1945. pp.x.118, 45 figs., 71 tab. 5s.* [*187*

D. Dictionaries, yearbooks, &c.

American bureau of metal statistics. Year book 1945. 24th annual issue. [See annuals list A178.] *New York: The bureau. 1945. pp.112. $2.* [*188*

American society for metals. ASM review of current metal literature. *Cleveland, Ohio: The society. 1945. pp.800. $15.* [A survey of metallurgical literature published during 1944 with author and subject indexes.] [*189*

R. T. Rolfe. A dictionary of metallography. *C. & H. 1945. pp.243. 15s.* [*190*

T. E. R. Singer. German–English dictionary of metallurgy with related material on ores, mining and minerals, crystallography, welding, metal working, tools, metal products and metal chemistry. *McG.-H. 1945. pp.298. 24s.* [*191*

British standards institution. [*Standards.*] (See also 220, 222)

Electroplated coatings of nickel and chromium on steel and brass. B.S. 1224: 1945. *pp.23, illus. 2s.* [*192*

Door bolts. Iron, steel and non-ferrous. B.S. 1228: 1945. *pp.18. 2s.* [*193*

Malleable cast iron and cast copper alloy pipe fittings for steam, water and gas. B.S. 1256: 1945. *pp.53, illus. 3s. 6d.* [*194*

MANUFACTURES AND RAW MATERIALS

FOOD TECHNOLOGY

B. Intermediate books. (See 47)

C. Advanced or specialized books. (See also 87)

J. F. Lockwood. Flour milling. *Liverpool: Northern publishing co. 1945. pp.511. 25s.* [*195*

J. F. Lockwood. Provender milling. 2nd ed. *Liverpool: Northern publishing co. 1945. pp.372. 15s.* [*196*

D. Dictionaries, yearbooks, &c.

J. W. Parry. The spice handbook. Spices, aromatic seeds and herbs. *New York: Chemical publishing co. 1945. pp.xvii.254, illus. $6.50.* 'An informative guide for manufacturers, importers and salesmen who wish to have a greater knowledge of the properties of the barks, phizomes, fruits, seeds and herbs in which they deal.' [*197*

G. L. Spencer and G. P. Meade. Cane sugar handbook. A manual for cane sugar manufacturers and their chemists. 8th ed. *New York: Wiley; London: C. & H. 1945. pp.xiv.834. 45s.* [*198*

RUBBER

C. Advanced or specialized books

A. Talalay and M. Magat. Synthetic rubber from alcohol: a survey based on the Russian literature. *New York: Interscience. 1945. pp.285. 30s.* 'On the Lebedev process; the technology of the S.K. process, and polymerisation.' [*199*

TEXTILES

A. Books of general interest

William Ferguson Leggett. The story of linen. *New York: Chemical publishing co. 1945. pp.xi.103. $2.75.* [*200*

B. Intermediate books. (See also 131)

Great Britain. Ministry of labour and national service. The cotton spinning industry: report of a commission set up to review wages and methods of organization, 26 October 1945. *H.M.S.O. 1945. pp.52. 9d.* [*201*

TIMBER

A. Books of general interest

Great Britain. Department of scientific and industrial research: Forest products research board. A handbook of Empire timbers. 3rd ed. revised. *H.M.S.O. 1945. pp.viii.142, tables. 3s.* [*202*

B. Intermediate books

T. D. Perry. Modern wood adhesives. *New York: Pitman. 1944. pp.197. 18s.* 'On the properties and use of animal, vegetable, and other glues, and synthetic resin adhesives.' [*203*

MECHANICAL TRADES

B. Intermediate books. (See 7, 75)

C. Advanced or specialized books

S. and H. A. Barkus. Know the escapement. *San Diego: R. E. Tanner. 1943. pp.91. 30s.* 'In this practical booklet for horologists the intricate calculations have been simplified into fifteen simple mechanical tests.' [*204*

E B. Brown. Optical instruments. *New York: Chemical publishing co. 1945. pp.499. $10.* [*205*

L and S. Levin. Practical benchwork for horologists. 4th ed. *Los Angeles: L. Levin & son. 1945. pp.372. 30s.* [*206*

BUILDING

A. Books of general interest

Great Britain. Ministry of agriculture and fisheries. Report of the committee on farm buildings. (Post-war building studies no. 17.) *H.M.S.O. 1945. pp.208, 22 pl., 67 figs. 3s.* [*207*

R. Sheppard. Cast iron in building. *A. & U. 1945. pp.98, 48 pl. 7s. 6d.* [*208*

B. Intermediate books

B. H. Cox. Prefabricated homes. [A report] for the Association of building technicians. *Elek. [1945.] pp.36, 16 pl. 2s.* [*209*

Great Britain. Ministry of works. Production in building and civil engineering. *H.M.S.O. 1945. pp.13. 6d.* 'Analysis of man-hours and machine-hours expended in the execution of works.' [*210*

Great Britain. Ministry of works. Progress charts for housing contracts. *H.M.S.O. 1945. pp.8, 11 figs. 9d.* [The preparation and use of progress charts.] [*211*

C. Advanced or specialized books. (See also 148).

C. M. Gay and C. de V. Fawcett. Mechanical and electrical equipment for buildings. 2nd ed. *New York: Wiley; London: C. & H. 1945. pp.436. $5.* [*212*

Great Britain. Department of scientific and industrial research. Building research board. Repair of damaged buildings. *Garston, Herts.: The board. 1945. gratis.* No. 6. Repairs to timber roofs and floors. No. 16. Removal of camouflage coatings, blackout paints and anti-scatter treatments. [*213*

Illuminating engineering society, *New York.* American recommended practice of industrial lighting. Approved . . . by American standards association. (ASA. A–11–1942.) *New York: The society. 1945. pp.51, illus. 25 cents.* [*214*

C. T. Morris and S. T. Carpenter. Structural frameworks. *New York: Wiley; London: C. & H. 1944. pp.265. $4.* [*215*

A. J. Willis. More advanced quantity surveying. 3rd ed. *C. Lockwood. 1945. pp.x.280, diagrs., separate portfolio of full scale plates. 25s.* [*216*

D. Dictionaries, yearbooks, &c.

Building societies year book: official handbook of the Building societies association 1945. *Franey. 1945. pp.400. 12s. 6d.* [217

Spon's architects' and builders' pocket price book 1945. ed. C. Young and B. Engel. 72nd ed. [See annuals list A202.] *Spon. 1945. pp.275, illus. 9s.* [218

British standards institution. [*Standards.*] (See also 193)

Glass internal sills to wood and metal windows. B.S. 1209. *pp.8. 2s.* [219

Centrifugally cast (spun) iron pipes for water, gas and sewage. B.S. 1211. *pp.19. 2s.* [220

Cast stone. B.S. 1217. *pp.9. 2s.* [221

Expanded metal (steel) for general purposes. B.S. 405. *pp.11. 2s.* [222

The glazing and fixing of glass for buildings. B.S. 973. *pp.15. 2s.* [223

Internal plastering. Codes of practice committee (Ministry of works). General series code 2.2. Draft for comment. 2nd proof CP(B)481. *pp.35. 2s.* [224

Preparation of surfaces to receive plaster. Codes of practice committee (Ministry of works). General series code 2.21. Draft for comment. 2nd proof CP(B) 482. *pp.26. 2s.* [225

Lime plastering. Codes of practice committee (Ministry of works). General series code 2.22. Draft for comment. 2nd proof CP(B)483. *pp.13. 2s.* [226

Cement finishes. Codes of practice committee (Ministry of works). General series code 2.24. Draft for comment. 2nd proof CP(B)484. *pp.19. 2s.* [227

TOWN AND COUNTRY PLANNING AND HOUSING

A. Books of general interest. (See also 176)

E. J. Carter and E. Goldfinger. The County of London plan. *West Drayton: Penguin books. 1945. pp.80, fold. map. 3s. 6d.* [228

R. L. Duffus. The Valley and its people. A portrait of T.V.A. [Tennessee valley authority.] (Borzoi books series.) *New York: Knopf. 1944. pp.167, illus. $2.75.* [229

Great Britain. Department of health for Scotland. Town and country planning (Scotland) act, 1945: explanatory memorandum. *H.M.S.O. 1945. pp.25. 9d.* [230

Great Britain. Ministry of labour and national service. Town planning. (Careers for men and women series no. 41.) *H.M.S.O. 1945. pp.12. 3d.* [231

L. Wolfe. The Reilly plan. *Nicholson & Watson. 1945. pp.156. 6s.* 'The proposal for a satellite town near Birkenhead.' [232

B. Intermediate books

B. Bliss, *ed.* The new planning: re-development and re-location; being a report of the Town and country planning association's national conference . . . 1944. *Faber. 1945. pp.116. 8s. 6s.* [233

M. **Bowley.** Housing and the State 1919–44. *A. & U. 1945. pp.viii.283, illus. 15s.* [234

L. **Mumford.** City development. Studies in disintegration and renewal. *New York: Harcourt. 1945. pp.vii.248. $2.* [235

E G. R. **Taylor.** Planning prospect. (Survey before plan series no. 1.) *Lund, Humphries. 1945. pp.64, plates. 6s.* [236

C. Advanced or specialized books

Great Britain. Ministry of town and country planning. National parks in England and Wales. Report by John Dower. (Cmd. 6628.) *H.M.S.O. 1945. pp.57. 1s.* [237

H. A. **Hill.** The town and country planning act 1944. (Reprinted from Butterworth's Emergency legislation service (annotated).) *Butterworth & co. 1945. pp.xii.131. 10s. 6d.* 'The law as at 1 March 1945.' [238

I. **McCallum,** *ed.* Physical planning: the groundwork of a new technique. *Cheam, Surrey: Architectural press.* [*1945.*] *pp.xvi.296, 40 pl., diagrs. 21s.* [239

Norwich city. City of Norwich plan. Prepared for the council by C. H. James, S. Rowland Pierce and H. C. Rowley. *Norwich: The corporation. 1945. pp.135, plates, 2 maps. 7s. 6d.* [240

J R. **Saville-Smith.** Planning acts, 1943–5, and compensation for acquisition of land *&c. Estates gazette.* [*1945.*] *pp.viii.244. 16s. 6d.* [241

Sheffield town planning committee. Sheffield replanned. A report . . . setting out the problems in replanning the city and the proposals *&c.* [*Sheffield: The committee. 1945.*] *pp.74, plates. 5s.* [242

ARCHITECTURE

A. Books of general interest

F. H. **Crossley.** English church design, 1040–1540 A.D. (British heritage series.) *Batsford. 1945. pp.viii.120, plates. 12s. 6d.* [243

Edward Mills, *ed.* Architecture. (Ross careers books series.) *Ross* (*Rolls house publishing co., distributors*). [*1945.*] *pp.55. 2s. 6d.* [244

S. **Sitwell.** British architects and craftsmen. A survey of taste, design and style during three centuries, 1600 to 1830. *Batsford. 1945. pp.viii.196, plates. 21s.* [245

H. **Wild.** The Houses of Parliament. Photographed by Hans Wild. Introd. [text] by James Pope-Hennessy. *Batsford. 1945. pp.vi.42, plates. 15s.* [246

B. Intermediate books

F. **Le Gros Clark.** Community restaurants in design. *London council of social service. 1945. pp.16, 2 fold. plans. 2s. 6d.* [247

Sir B. F. **Fletcher.** A history of architecture on the comparative method. 12th ed. *Batsford. 1945. pp.xxx.1033, plates. 52s. 6d.* [248

E **Nicholson.** Contemporary shops in the United States. *New York: Architectural book publishing co.* [*1945.*] *pp.192. $9.* [249

Nursery school association of Great Britain. Buildings advisory committee. Planning the new nursery schools. A survey of the essential features . . . for children between the ages of two and seven years. *Bickley, Kent: University of London press. 1945. pp.40, fold. map. 2s. 6d.* [250

H. H. Turner. Architectural practice and procedure. 3rd ed. *Batsford. 1945. pp.xiii.374. 18s.* [251

D. Dictionaries, yearbooks, &c. (See also 218)

Architects' year book. ed. J. B. Drew. *Elek. 1945. pp.ii.412, plates, diagrs. 35s.* [252

PHOTOGRAPHY

B. Intermediate books

J. M. Eder. History of photography. trans. E. Epstean. *New York: Columbia university press; London: O.U.P. 1945. pp.xx.860. 66s. 6d.* [253

C. Advanced or specialized books

Society of motion picture engineers. The technique of motion picture production: a symposium of papers. *New York: Interscience. 1944. pp. 146. 21s.* [Reprinted from the journal of the society.] [254

GEOGRAPHY

A. Books of general interest. (See also 5, 105, 107, 108)

W. Fitzgerald. The new Europe. *Methuen. 1945. pp.255. 14s.* [255

C. Advanced or specialized books. (See 179, 237)

ASLIB BOOK-LIST

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GENERAL

A. Books of general interest

Great Britain. Department of scientific and industrial research. Atmospheric pollution research board. Atmospheric pollution in Leicester: a scientific survey. (Technical paper no. 1.) *H.M.S.O. 1945. pp.vi.161, illus., tables. 3s.* [*256*

Great Britain. Home office. Manual of firemanship. pt. 6B. Practical firemanship. 2 *H.M.S.O. 1945. pp.169, 58 illus., 21 figs. 2s. 6d.* [*257*

G. G. Hawley and S. W. Leifson. Atomic energy in war and peace. *New York: Reinhold; London: C. & H. 1945. pp.211, 35 figs. 15s.* [*258*

Sir H. F. Heath and A. L. Hetherington. Industrial research and development in the United Kingdom: a survey. *Faber. 1946. pp.xix.375, front., 12 pl. 25s.* [*259*

Sir Harry Lindsay, *ed.* British commonwealth objectives. *Michael Joseph. 1946. pp.288. 10s. 6d.* [*260*

K. Munro. France. Yesterday and today. A short survey. *Royal institute of international affairs. 1945. pp.107, 2 maps. 4s. 6d.* [*261*

J. K. Robertson. Atomic artillery and the atomic bomb. *Macmillan.* [*1945.*] *pp.xii.173, 8 pl., diagrs. 12s. 6d.* [A revision of the author's work *Atomic artillery*, published in 1937.] [*262*

Henry DeW. Smyth. Atomic energy for military purposes. *Princeton university press; London: O.U.P. 1945. pp.264.* $2. [This is the full text, with modifications, of the U.S. government report on the atomic bomb, with additional photographs and an account of the New Mexico test of 16 July.] [*263*

United States. Office of war information. Handbook of the United States of America. Pertinent information about the United States and the war effort. *Hutchinson. 1945. pp.255. 10s. 6d.* [*264*

Alexander Wood. The Cavendish laboratory. *C.U.P. 1946. pp.59, 8 pl. 2s. 6d.* [*265*

B. Intermediate books

Margery Perham, *ed.* Studies in colonial legislatures. v. 1. The development of the legislative council, 1606–1945. By Martin Wight. *Faber. 1946. pp.187. 10s. 6d.* [*266*

C. Advanced or specialized books

A. M. Cameron. Chemistry in relation to fire risk and fire extinction. 2nd ed. *Pitman. 1945. pp.vii.196. 10s. 6d.* [*267*

References throughout this issue to the 'annuals list' refer to a companion publication entitled 'Classified list of annuals and year books'.

Owing to present conditions, all prices quoted are liable to alteration.

P15760

Great Britain. National physical laboratory: Metrology division. Notes on the use of circular dividing apparatus for angular and linear measurement. By G. P. Barnard. *H.M.S.O. 1945. pp.81, 55 diagr. 7s. 6d.* [Typescript.] [*268*

D. Yearbooks, handbooks, &c.

American yearbook 1944. ed. W. M. Schuyler. *Nelson. 1945. pp.1082. 60s.* [*269*

Industrial research 1946. Advisory editor: E. N. da C. Andrade. *Todd (Harrap, distributors). [1946.] pp.736, front., tables, figs. 21s.* [*270*

A. L. Prickett. Cost accounting bibliography. *Bloomington, Ind.: School of business, Indiana university. 1945. pp.470. $1.* [This bibliography, limited to sources now available, covers publications from 1890 to July 1944.] [*271*

Sell's directory of registered telegraphic addresses 1946. [See annuals list A45.] *Business dictionaries. 1946. pp.1632. 60s.* [*272*

United States. Senate. Committee on military affairs: subcommittee on war mobilization. The social impact of science: a select bibliography, with a section on atomic power. Prepared by the Library of Congress. *Washington, D.C.: Government printing office; London: H.M.S.O. 1945. pp.vi.51. 15 cents.* [*273*

BIOGRAPHIES

A. Books of general interest. (See also 389)

N. Barlow. Charles Darwin and the voyage of the Beagle. *Pilot press. 1945. pp.273, 15 illus., map. 15s.* [*274*

B. Intermediate books. (See also 348)

Hermann Kesten. Copernicus and his world. trans. E. B. Ashton and Norbert Guterman. *Secker & Warburg. 1945. pp.ix.408. 21s.* [*275*

LIBRARIANSHIP

B. Intermediate books. (See 486)

C. Advanced or specialized books

Louis Round Wilson and Maurice F. Tauber. The university library: its organization, administration and functions. (University of Chicago studies in library science.) *Chicago university press; London: C.U.P. 1945. pp.x.570, illus. $5.* [*276*

PSYCHOLOGY

B. Intermediate books

Kimball Young. Handbook of social psychology. (International library of sociology and social reconstruction.) *Kegan Paul. 1946. pp.vii.578. 21s.* [*277*

C. Advanced or specialized books

C. P. Blacker. Neurosis and the mental health services. *O.U.P. 1946. pp.xxii.218. 21s.* [*278*

O. J. Kaplan. Mental disorders in later life. *Calif.: Stanford university press; London: O.U.P. 1945. pp.vii.436. 30s.* [*279*

D. Rapaport and others. Diagnostic psychological testing. *Chicago: Year book publishers; London: H. K. Lewis. 1945–6. pp.xi.573+xi.516. 72s.* [*280*

M. Wertheimer. Productive thinking. *Harper. 1946. pp.xi.224.* $3. [281

D. Dictionaries, yearbooks, &c. (See also 364)

National committee for mental hygiene. Psychiatric and mental hygiene. Aspects of civilian rehabilitation. *New York: The committee. 1945. pp.10. 20 cents.* [A bibliography.] [282

EDUCATION

A. Books of general interest. (See also 308, 415, 473, 475)

Great Britain. Home office. Making citizens. A review of the aims, methods and achievements of the approved schools in England and Wales. *H.M.S.O. 1946. pp.12, illus. 1s.* [283

Great Britain. Scottish education department. Training of teachers. A report of the Advisory council on education in Scotland. *Edinburgh: H.M.S.O. 1946. pp.97. 1s. 6d.* [284

Clive A. Wheeler. The adventure of youth. The psychology of adolescence and its bearing on the extension and reform of adolescent education. *Bickley, Kent: University of London press. 1945. pp.ix.212. 6s.* [285

W. David Wills. The Barns experiment. *A. & U. 1945. pp.148. 8s. 6d.* 'An account of an experiment carried out at the Barns school started by the Society of friends for 'difficult' boys between 8 and 14. The boys made their own laws.' [286

B. Intermediate books. (See also 432, 433, 475)

A. H. T. Glover. New teaching for a new age. *Nelson. 1946. pp.ix.188, illus. 15s.* 'A contribution towards the new teaching which fits both the bookish and unbookish child. Certain projects in teaching which the author and his colleagues have experimented with are described in detail.' [287

E. R. Hamilton. The teacher on the threshold. *Bickley, Kent: University of London press. 1945. pp.224. 6s.* [288

M. L. Jacks. Total education. (International library of sociology and social reconstruction.) *Kegan Paul. 1946. pp.160. 10s. 6d.* [289

G. Patrick Meredith. Visual education and the new teacher. A study of children and machines, of organization and men. *Exeter: Visual education centre. 1946. pp.64. 2s. 6d.* [290

ECONOMICS

General

A. Books of general interest. (See also 264, 488)

Great Britain. Department of overseas trade. Review of commercial conditions. *H.M.S.O. 1945–6.* British West Indies, August–September 1945. *pp.48. 1s.* Eire, September 1945. *pp.23. 6d.* Union of South Africa, July 1945. *pp.34. 6d.* [291

B. Intermediate books. (See also 419, 436)

Deryck Abel. A history of British tariffs 1923–42. *Heath Cranton. 1945. pp.156. 5s. 6d.* [292

Nuffield college social reconstruction survey. Voluntary social services. ed. A. F. C. Bourdillon. *Methuen. 1945. pp.322. 16s.* [293

D. Dictionaries, yearbooks, &c. (See 269, 461)

BANKING AND FINANCE

B. Intermediate books

R. W. Jones. Studies in practical banking. Being the Gilbart lectures for 1932–35. 2nd ed. *Pitman 1945. pp.352. 10s. 6d.* [*294*

C. Advanced or specialized books

Maurice Megrah. The Bills of exchange act 1882 and negotiable instruments generally. 4th ed. revised. *Pitman. 1945. pp.240. 8s. 6d.* [*295*

R. Nurkse. Conditions of international monetary equilibrium. (Princeton university department of economics and social institutions; essays in international finance no. 4.) *Princeton university press; London: O.U.P. 1945. pp.24. gratis.* [*296*

INDUSTRY

A. Books of general interest. (See also 259, 362, 363)

Great Britain. Ministry of agriculture and fisheries and Department of agriculture for Scotland. Report of the Wool marketing committee, 17 October 1945. *H.M.S.O. 1946. pp.23. 4d.* [Recommends the formation of a Joint wool council.] [*297*

B. Intermediate books. (See also 437)

J. C. Aspley and E. Whitmore. Handbook of industrial relations. 2nd ed. *4660 Ravenswood Ave., Chicago 40, and Dartnell Building, Letchworth: Dartnell corp. 1945. pp.1171. 45s.* [*298*

F. J. Burns Morton. The new foremanship. 2nd ed. revised. *C. & H. 1946. pp.xvi.316. 15s.* [*299*

C. H. Northcott. Personnel management. *Pitman. 1945. pp.x.329, tables, 2 charts. 18s.* [*300*

R. Presgrave. Dynamics of time study. 2nd ed. *McG.-H. 1945. pp.238. 15s.* [*301*

A. R. Wiren and C. Heyel. Practical management research. *McG.-H. 1945. pp.x.222. 15s.* [*302*

C. Advanced or specialized books. (See also 387)

F. J. Hyam. Modern laundry production. *Heywood & co. 1945. pp.192. 10s. 6d.* [*303*

D. Dictionaries, yearbooks, &c. (See 270, 271, 364, 365)

TRANSPORT AND COMMUNICATIONS

A. Books of general interest. (See also 398)

Great Britain. Ministry of civil aviation. British air services. (Cmd. 6712.) *H.M.S.O. 1945. pp.8. 2d.* [The general policy of the government for a national plan of air transport.] [*304*

Great Britain. Ministry of war transport. Report of the departmental committee on traffic signs, November 1944. *H.M.S.O. 1946. pp.vi.114, 128 diagr. 2s.* [*305*

B. Intermediate books

T. F. **Cameron.** An outline of railway traffic operation. *Railway publishing co. 1946. pp.205, plates, diagrs. 12s.* [A reprint of articles which originally appeared in the *Railway magazine.*] [*306*

C. Advanced or specialized books. (See also 421)

E. H. **Lederer.** Port terminal operation: port terminal management, stevedoring, stowage, lighterage and harbor boats. *New York: Cornell maritime press. 1945. pp.430. 30s.* [*307*

MATHEMATICS

A. Books of general interest

C. **Godfrey and A. W. Siddons.** The teaching of elementary mathematics. 2nd ed. *C.U.P. 1946. pp.xi.322. 7s. 6d.* [*308*

B. Intermediate books

Martin Davidson, *ed.* The gyroscope and its applications. *Hutchinson. 1946. pp.256. 21s.* [*309*

A. **Geary, H. V. Lowry and H. A. Hayden.** Advanced mathematics for technical students. 1. *L.G. 1946. pp.viii.419. 12s. 6d.* [*310*

D. Dictionaries, yearbooks, &c.

British association for the advancement of science. Mathematical tables. v. 1. Circular and hyperbolic functions, exponential and sine and cosine integrals, factorial function and allied functions, hermitian probability functions. 2nd ed. *C.U.P. (for the British association). 1946. pp.xii.(72). 10s.* [*311*

ASTRONOMY

B. Intermediate books. (See also 275)

G. Z. **Dimitroff and J. Baker.** Telescopes and accessories. (Harvard books on astronomy.) *Philadelphia: Blakiston. 1945. pp.309. $2.50.* [*312*

PHYSICS

A. Books of general interest. (See 258, 262, 263, 265)

B. Intermediate books. (See also 309, 382)

H. J. **Cooper,** *ed.* Scientific instruments. *Hutchinson. 1946. pp.293, illus. 25s.* 'Written by 15 specialists and covers optical, measuring, navigational and surveying, liquid testing, and miscellaneous instruments.' [*313*

W. **Heitler.** Elementary wave mechanics. *O.U.P. 1945. pp.134. 7s. 6d.* [*314*

E. C. **Johnson.** Atomic spectra. (Monographs on physical subjects.) *Methuen. 1946. pp.viii.120, 38 diagr. 5s.* [*315*

F. W. **Sears.** Principles of physics. 3. Optics. *Cambridge, Mass.: Addison-Wesley press. 1945. pp.324, illus. 24s.* [*316*

C. Advanced or specialized books. (See also 323, 405, 420)

E. R. **Maurer, R. J. Roark and G. W. Washa.** Mechanics for engineers: statics and dynamics. *New York: Wiley; London: C. & H. 1945. pp.425. 21s.* [*317*

E. **Pollard and W. L. Davidson, jr.** Applied nuclear physics. *New York: Wiley; London: C. & H. 1945. pp.249. 18s.* [*318*

E. Schrödinger. Statistical thermodynamics: a course of seminar lectures. *C.U.P. 1946. pp.viii.88, 2 figs. 6s.* [A mimeographed edition of this was published by the Dublin institute of advanced studies in 1944. The text has now been slightly revised.] [*319*

D. Dictionaries, yearbooks, &c. (See 329, 408, 410)

CHEMISTRY AND CHEMICAL TECHNOLOGY

A. Books of general interest. (See 451, 463)

B. Intermediate books. (See also 314, 465)

J. R. Partington. General and inorganic chemistry for university students. *Macmillan. 1946. pp.xxiii.916, 345 diagr. 36s.* [*320*

C. B. F. Young and K. W. Coons. Surface active agents: theoretical aspects and applications. *New York: Chemical publishing co. 1945. pp.381. $6.* [*321*

C. Advanced or specialized books. (See also 267, 331, 386)

A. E. Bailey. Industrial oil and fat products. *New York: Interscience. 1945. pp.735; illus. $10.* [*322*

R. E. Burk and O. Grummitt, *edd.* Major instruments and their applications to chemistry. (Frontiers in chemistry v. 4.) *New York: Interscience. 1945. pp.151. $3.50.* [Chapters by different authors on optical instruments used to solve problems of chemical structure and analysis.] [*323*

J. T. Marsh and F. C. Wood. An introduction to the chemistry of cellulose. 3rd ed. revised. *C. & H. 1945. pp.xi.525. 32s.* [*324*

United steel companies. Standard methods of analysis of iron, steel and ferro-alloys. 3rd ed. *Sheffield: The company. 1945. pp.93. 7s. 6d.* [*325*

D. Dictionaries, yearbooks, &c.

American society for testing materials: committee D-12. A.S.T.M. standards on soaps and other detergents; with related information. *Philadelphia: The society. 1945. pp.162. $1.75.* [*326*

Chemical industries 1945. ed. L. Ivanovsky. [See annuals list A64.] *Hill. 1946. pp.350, illus. 20s.* [*327*

Reginald B. Gordon. History of science, second supplement. pt. 5. Chemistry, crystallography and mineralogy. *Chicago: John Crerar library. 1945. pp.21. 50 cents.* [A bibliography] [*328*

Handbook of chemistry and physics. ed. C. D. Hodgman. 29th ed. [See annuals list A70.] *Cleveland, Ohio: Chemical rubber publishing co. 1945. pp.2640. 27s.* [*329*

C. T. Kingzett. Kingzett's chemical encyclopedia. 7th ed. ed. R. K. Strong. *Baillière. 1945. pp.1100. 45s.* [*330*

FUEL TECHNOLOGY

B. Intermediate books. (See 419)

C. Advanced or specialized books. (See also 411)

A. N. Sachanen. The chemical constituents of petroleum. *New York: Reinhold; London: C. & H. 1945. pp.451, 43 figs., 151 tab. 51s.* [*331*

United States. National research council. Chemistry of coal utilization. ed. H. M. Lowry. *New York: Wiley; London: C. & H. 1945. pp.cv.920+cv.948, figs., tables. 120s.* [332

D. Dictionaries, yearbooks, &c.

American society for testing materials: committee D-2. A.S.T.M. standards on petroleum products and lubricants. *Philadelphia: The society. 1945. pp.546. $2.75.* [333

GEOLOGY AND MINERALOGY

D. Dictionaries, yearbooks, &c. (See 328)

CRYSTALLOGRAPHY

D. Dictionaries, yearbooks, &c. (See 328)

OCEANOGRAPHY

C. Advanced or specialized books

H. U. Sverdrup. Oceanography for meteorologists. *A. & U. 1944. pp.246, 40 diagr., 4 charts. 12s. 6d.* [334

METEOROLOGY

A. Books of general interest

F. W. Lane. The elements rage. *Country life. 1945. pp.xii.188, 47 pl. 10s. 6d.* [A survey of hurricanes, tornadoes, waterspouts, hail, snow, lightning, meteorites, earthquakes and volcanoes, based on the available literature.] [335

C. Advanced or specialized books. (See 334)

BIOLOGY

A. Books of general interest. (See also 274, 374)

J. R. Baker. Cytological technique: the principles and practice of methods used to determine the structure of the metazoan cell. 2nd ed. (Monographs on biological subjects.) *Methuen. 1945. pp.vii.212. 6s.* [336

B. Intermediate books. (See also 366, 368, 442, 443)

R. W. Fairbrother. A text-book of bacteriology. 4th ed. *Heinemann. 1945. pp.463. 17s. 6d.* [337

L. Gershenfeld. Bacteriology and allied subjects. *Easton, Pa.: Mack publishing co. 1945. pp.xxiii.561, illus. 36s.* [338

George Smith. An introduction to industrial mycology. 3rd ed. *Edward Arnold. 1946. pp.xvi.271, 143 figs. 20s.* [339

C. Advanced or specialized books

S. Brody. Bioenergetics and growth. *New York: Reinhold; London: C. & H. 1945. pp.xii.1023, illus. 51s.* [340

F. M. Burnet. Virus as organism: evolutionary and ecological aspects of some human virus diseases. (Harvard university monographs in medicine and public health no. 8.) *Cambridge, Mass.: Harvard university press; London: O.U.P. 1945. pp.ix.134. $2.* [341

D. Dictionaries, yearbooks, &c.

Homer A Jack. Biological field stations of the world. (Chronica botanica v. 9. no. 1.) *Waltham, Mass.: Chronica botanica; London: William Dawson. 1945. pp.vi.74. $2.50.* [342

BIOCHEMISTRY

C. Advanced or specialized books. (See also 340)

Robert S. Harris and Kenneth V. Thimann, *edd.* Vitamins and hormones: advances in research and applications. v. 3. *New York: Academic press. 1945. pp.xv.420. $6.50.* [343

Rudolf Hober and others. Physical chemistry of cells and tissues. *Philadelphia: Blakiston; London: Churchill. 1945. pp.676. 42s.* [344

W. W. Pigman and M. L. Wolfram, *edd.* Advances in carbohydrate chemistry. v. 1. *New York: Academic press; London: H. K. Lewis. 1945. pp.386. 36s.* [345

BOTANY

A. Books of general interest

E. H. M. Cox. Plant-hunting in China. *Collins. 1945. pp.230, illus. 12s. 6d.* [346

Great Britain. Ministry of agriculture and fisheries. Edible and poisonous fungi. 6th ed. (Bulletin no. 23.) *H.M.S.O. 1945. pp.35, 27 col. pl. 3s. 6d.* [347

B. Intermediate books. (See also 337, 338)

John Hutchinson. A botanist in southern Africa. *Gawthorn. 1946. pp.686, illus. 45s.* [348

J. M. Lowson. Textbook of botany. 9th ed. revised. *University tutorial press. 1945. pp.viii.584, illus. 12s. 6d.* [349

L. E. Yocum. Plant growth. *Lancaster, Pa.: Jacques Cattell press. 1945. pp.203. 18s.* [350

C. Advanced or specialized books

G. F. Carter. Plant geography and culture history in the American southwest. (Viking fund publications in anthropology no. 5.) *14 East 71st Street, New York: Viking fund. 1945. pp.140, maps. $1.50.* [351

ZOOLOGY

A. Books of general interest. (See also 274)

W. Higham. Birds in colour. *Collins. 1946. pp.176, 89 col. illus. 25s.* [352

E. J. Hosking and C. W. Newberry. Birds of the night. *Collins. 1945. pp.128, 86 illus. 12s. 6d.* [353

H. B. C. Pollard and P. Barclay-Smith. British and American game birds. Illustrated by P. Rickman. *Eyre & Spottiswoode. 1945. pp.48. 30s.* [354

S. Smith. How to study birds. *Collins. 1945. pp.192, 12 pl. 8s. 6d.* [355

V. Temple. Butterflies and moths in Britain. (The British nature library.) *Batsford. 1946. pp.viii.120, 66 pl. (10 col.), illus. 12s. 6d.* [356

B. Intermediate books. (See 442)

C. Advanced or specialized books. (See also 376)

F. C. Baker. The molluscan family *planorbidae.* Collation, revision and additions by Harley Jones van Cleave. *Urbana, Ill.: Illinois university press. 1945. pp.xxxvi.530, 141 pl. 87s.* [357

G. S. Kloet and W. D. Hincks. A check list of British insects. *322 Wellington Road North, Heaton Chapel, Stockport: The authors. 1945. pp.lix.483, front. 42s.* [358

D. J. Lee and A. R. Woodhill. The anopheline mosquitoes of the Australasian region. (Sydney university department of zoology monograph no. 2.) *Sydney university press. 1944. pp.xii.209, 34 pl., 8 maps, 13 figs. gratis.* [359

G. G. Simpson. Principles of classification and a classification of mammals. (Bulletin of the American museum of natural history v. 85.) *New York: American museum of natural history. 1945. pp.xvi.350. $3.50.* [360

W. R. Thompson, *ed.* A catalogue of the parasites and predators of insect pests. Section 1. Parasite host catalogue. pt. 6. Parasites of the lepidoptera (Ci–F). *Belleville, Ont.: Imperial parasite service, Imperial institute of entomology. 1945. pp.[1].131–258, multigraph. 10s.* [361

MEDICINE

Industrial health and safety

A. Books of general interest

Great Britain. Ministry of labour and national service. First aid services for factories. 5th ed. (Welfare pamphlet no. 4.) *H.M.S.O. 1945. pp.24, 13 pl., 9 plans. 1s.* [362

Great Britain. Ministry of labour and national service. Weight lifting by industrial workers. (Safety pamphlet no. 16.) *H.M.S.O. 1945. pp.37, 32 illus. 1s.* [363

D. Dictionaries, yearbooks, &c.

National committee for mental hygiene. Mental hygiene in industry. *New York: The committee. 1945. pp.9. 20 cents.* [A bibliography.] [364

United States. Public health service. Industrial hygiene 1900–1943. Compiled by Ellen F. Bellingham and others. (Public health bulletin no. 289.) *Washington, D.C.: The service. 1945. pp.95. 20 cents.* [A bibliography.] [365

Pharmacy and pharmacology

B. Intermediate books

F. Bicknell and F. Prescott. The vitamins in medicine. 2nd ed. *Heinemann. 1946. pp.xii.916, 208 illus., fold. chart. 50s.* [366

Great Britain. Medical research council. The medical use of sulphonamides. 2nd ed. (War memorandum no. 10.) *H.M.S.O. 1945. pp.71. 1s. 3d.* [367

League of nations. Biological standardization. Unification of pharmacopoeias. *A. & U. 1946. pp.179. 5s.* [368

R. A. Lyman and others. American pharmacy; fundamental principles and practices; pharmaceutical preparations, biologicals. *Lippincott. 1945. pp.xix.540. 197 illus. 50s.* [369

J. A. Silver and R. Clarkson. Manufacture of compressed tablets. *Philadelphia: F. J. Stokes machine co.: London: Apex construction ltd. 1945. pp.70. $3.* [370

Synthetic menthol: a collection of the literature concerning its pharmaceutical properties and its uses. *330 West 22nd Street, New York: Givaudan-Delawanna inc. 1944. pp.238. gratis.* [A reprint of 17 articles on the subject, with two original reports on toxicity studies.] [371

C. Advanced or specialized books

M. E. Whalley. Abstracts on penicillin and other antibiotic agents. 2nd ed. *Ottawa: National research council of Canada. 1945. pp.166. 6s.* [*372*

D. Dictionaries, yearbooks, &c.

Pharmaceutical society of Great Britain. Registers of the pharmaceutical chemists and chemists and druggists. [See annuals list A93.] *Pharmaceutical press. 1946. pp.662. 63s.* [*373*

PUBLIC HEALTH

A. Books of general interest. (See also 257)

Otto Rahn. Microbes of merit. *Lancaster, Pa.: Jaques Cattell press. 1945. pp.277.* $*4.* [A description for the general reader of many kinds of microbes which are beneficial to man.] [*374*

B. Intermediate books. (See also 337, 338, 487)

E. C. McCulloch. Disinfection and sterilization. 2nd ed. revised. *Kimpton. 1945. pp.xxiii.561. 33s.* [*375*

C. Advanced or specialized books. (See also 267, 341, 359)

Susan Finnegan. Acari: as agents transmitting typhus in India, Australasia and the Far East. (Economic series no. 16.) *British museum (natural history). 1945. pp.78. 1s. 6d.* [*376*

D. Dictionaries, yearbooks, &c.

Health and social welfare 1945–46. *Todd (Harrap, distributors). 1945. pp.519. 21s.* [*377*

League of nations. Bibliography of the technical work of the Health organization of the League of nations; 1920–1945. *A. & U. 1945. pp.235. 6s.* [*378*

NUTRITION

A. Books of general interest

Great Britain. Medical research council. Table of representative food values of foods commonly used in tropical countries. By B. S. Platt. (Special report no. 253.) *H.M.S.O. 1945. pp.41. 9d.* [*379*

B. Intermediate books. (See also 366)

A. L. Bacharach. Science and nutrition. 2nd ed. *Watts. 1945. pp.xii.142. 5s.* [*380*

C. Advanced or specialized books. (See also 340)

Great Britain. Medical research council. Food yeast: a survey of its nutritive value. *H.M.S.O. pp.16. 3d.* [*381*

ENGINEERING

GENERAL

B. Intermediate books. (See also 313)

S. H. Hemsley. Optical instruments in engineering. *Elek. 1945. pp.80, 40 diagr. 7s. 6d.* [*382*

J. E. Taylor and J. S. Wrigley. Engineering design. 2nd ed. revised. *Pitman. 1945. pp.vii.130, diagrs. 12s. 6d.* [*383*

C. Advanced or specialized books. (See also 268, 317, 333, 421, 459, 471)

R. L. Batley and E. G. Barber. Boiler plant technology. 2nd ed. *Pitman. 1945. pp.305. 15s.* [384

S. Crocker. Piping handbook. 4th ed. of *Piping handbook* by J. H. Walker and S. Crocker. *McG.-H. 1945. pp.1376. 42s.* [385

H. C. Hesse and J. H. Rushton. Process equipment design. *New York: Van Nostrand. 1945. pp.562. 36s.* 'The design of the whole equipment required for chemical engineering processes.' [386

R. C. A. Vernon, *ed.* The *Factory manager* manual of industrial management and maintenance. *Craven House, Kingsway, London, W.C. 2: Production publications. 1945. pp.512. 25s.* [387

D. Dictionaries, yearbooks, &c. (See also 460)

Materials handling manual II. ed. M. M. and G. W. Williamson. *Elek.* [*1945.*] *pp.488. 30s.* 'This is intended to be a second volume of the series that started as the *Mechanical handling year book.*' [388

AERONAUTICAL

A. Books of general interest. (See also 304)

C. L. Morris. Pioneering the helicopter. *McG.-H. 1945. pp.161. 16s. 6d.* 'A non-technical record of pioneer flights by the chief test pilot of Sikorsky aircraft.' [389

R. A. Saville-Sneath. Aircraft of the United States. v. 1. *New York: Penguin books. 1945. pp.256. 5s.* [390

H. S. Zim. Rockets and jets. *New York: Harcourt. 1945. pp.326.* $3. [For the non-technical reader; the technical parts are authoritatively written but can be understood without any broad knowledge of engineering.] [391

B. Intermediate books

N. A. V. Piercy. A complete course in elementary aerodynamics with experiments and examples. 2nd ed. *Sevenoaks, Kent: English universities press. 1945. pp.324, 124 illus. 21s.* [392

C. Advanced or specialized books. (See also 412)

L. Bruchiss. Aircraft armament. *New York: Aerosphere. 1945. pp.224. 36s.* [393

Great Britain. Ministry of aircraft production. Aeronautical research committee. The vibration of an aircraft with specific reference to the wings. By J. Morris and I. T. Minpinnick. (Reports and memoranda no. 1928, April 1940.) *H.M.S.O. 1945. pp.38, 12 figs. 7s.* [394

Arthur W. Judge. Aircraft engines. v. 1. 2nd ed. revised. *C. & H. 1945. pp.xii.492. 28s.* [395

J. A. Kyd. Variable-pitch propellers. *Pitman. 1945. pp.76. 6s.* 'A manual for ground engineers and pilots, not for designers.' [396

D. Dictionaries, yearbooks, &c.

Jane's all the world's aircraft 1945–46. ed. L. Bridgman. [See annuals list A111.] *Low. 1946. pp.700, illus. 63s.* [397

AUTOMOBILE

C. Advanced or specialized books. (See 412)

CIVIL

A. Books of general interest

Great Britain. Ministry of war transport. Report of the committee on the design and layout of roads in built-up areas. *H.M.S.O. 1946. pp.vi.102, 44 pl., figs. 4s.* [398

B. Intermediate books. (See also 477)

W. L. Lowe-Brown. An introduction to soil mechanics. *Pitman. 1945. pp.57. 4s. 6d.* 'Based on articles contributed to *The Engineer.*' [399

C. Advanced or specialized books. (See also 481)

W. P. Creager and others. Engineering for dams. v. 1. General design. v. 2. Concrete dams. v. 3. Earth, rock-fill, steel and timber dams. *New York: Wiley; London: C. & H. 1945. pp.283+418+349. $15.* [400

S. Timoshenko and D. H. Young. Theory of structures. *McG.-H. 1945. pp.488, 477 illus. 30s.* [401

D. Dictionaries, yearbooks, &c.

Concrete year book 1946. ed. Oscar Faber and H. L. Childe. [See annuals list A204.] *Concrete publications. 1945. pp.850, illus. 5s.* [402

E. E. Seelye. Data book for engineers: design. *New York: Wiley; London: C. & H.* [*1945.*] *pp.irreg. 45s.* [Specific data of use to civil engineers on topics such as concrete, bridges, drainage and airports.] [403

ELECTRICAL

B. Intermediate books. (See 478)

C. Advanced or specialized books

H. W. Chatfield and J. H. Wredden. Varnished cloths for electrical insulation. *Churchill. 1946. pp.266, 60 pl., figs. 21s.* [404

H. Cotton. Electric discharge lamps. (Monographs on electrical engineering.) *C. & H. 1946. pp.xvi.435, 216 figs. 36s.* [405

R. C. H. Richardson. The commissioning of electrical plant and associated problems. 2nd ed. revised. (Monographs on electrical engineering.) *C. & H. 1946. pp.xi.372, 181 figs. 25s.* [406

H. P. Young. Electric power system control. 2nd ed. revised. (Monographs on electrical engineering v. 11.) *C. & H. 1946. pp.xii.369, 249 figs. 25s.* [407

D. Dictionaries, yearbooks, &c.

Nelson M. Cooke and John Markus. Electronics dictionary. *McG.-H. 1945. pp.433. $5.* [408

'Electrical engineer' reference book. ed. E. Molloy. *Newnes. 1945. pp.1569. 42s.* [409

Electronic engineering master index: a subject index to electronic engineering periodicals, January 1925 to June 1945. ed. Frank A. Petraglia. *238 East 44th Street, New York: Electronics research publishing co.* [*1945.*] *pp.x.318. $17.50.* [410

INTERNAL COMBUSTION ENGINES

C. Advanced or specialized books

C. H. Fisher. Carburation, carburettors, and petrol injection. 2nd ed. *C. & H. 1945. pp.358. 21s.* [411

Arthur W. Judge. Modern petrol engines, with special reference to automobile, aircraft and stationary types. *C. & H. 1946. pp.viii.509, 304 figs. 36s.* [412

MARINE—SHIPS AND SHIPBUILDING

A. Books of general interest

Great Britain. Admiralty. Aluminium alloys for naval use. *H.M.S.O. 1945. pp.20, tables. 6d.* [413

B. Intermediate books. (See 309)

C. Advanced or specialized books. (See 307)

D. Dictionaries, yearbooks, &c.

J. M. Labberton, *ed.* Marine engineers' handbook. *McG.-H. 1945. pp.2013. $7.50.* [414

MECHANICAL

A. Books of general interest

Great Britain. Ministry of labour and national service. Mechanical engineering. (Careers for men and women series no. 18.) *H.M.S.O. 1945. pp.71. 3d.* [415

Great Britain. Ministry of supply. Fine boring with diamond tools: a survey. *H.M.S.O. 1945. pp.16, figs. 4d.* [416

F. C. Lea and E. N. Simons. The machining of steel simply explained. *Blackie. 1945. pp.viii.214, 8 pl., 126 figs. 8s. 6d.* [417

B. Intermediate books. (See 454)

C. Advanced or specialized books. (See 457, 458)

D. Dictionaries, yearbooks, &c.

O. W. Boston. A bibliography on cutting of metals, 1864–1943. *New York: American society of mechanical engineers. 1945. pp.547. 39s.* [418

MINING

B. Intermediate books

Great Britain. Ministry of fuel and power. Bristol and Somerset coalfield: regional survey report. *H.M.S.O. 1946. pp.84, 4 pl., 35 tab. 1s. 6d.* [419

C. Advanced or specialized books

Great Britain. Ministry of fuel and power. Report upon lighting performance of safety lamps in coal mines in Lancashire and North Wales. *H.M.S.O. 1946. pp.13. 3d.* [420

H. R. Wheeler. Manual of modern underground haulage methods for mining engineers. *Griffin. 1946. pp.67, 16 illus., 35 tab. 18s.* 'The presentation is mainly statistical. The book is intended for reference and not as a text book.' [421

RAILWAY

B. Intermediate books. (See 306)

D. Dictionaries, yearbooks, &c.

Universal directory of railway officials and railway year book 1945–46. [See annuals list A156.] *Directory publishing co. 1945. pp.586. 20s.* [422

WIRELESS

D. Dictionaries, yearbooks, &c. (See 408, 410)

AGRICULTURE

GENERAL

A. Books of general interest (See also 347)

Waldorf Astor, 2nd viscount Astor, and B. Seebohm Rowntree. Mixed farming and muddled thinking: an analysis of current agricultural policy. *MacDonald. 1946. pp.143, 9 tab. 5s.* [423

F. Fraser Darling. Crofting agriculture: its practice in the West Highlands and Islands. *O. & B. 1945. pp.xii.163, front., 19 pl. 6s.* [424

Great Britain. Ministry of agriculture and fisheries. Bee-keeping, by C. G. Butler. 7th ed. (Bulletin no. 9.) *H.M.S.O. 1945. pp.ii.30. 9d.* [425

Great Britain. Ministry of agriculture and fisheries. Diseases of bees. (Bulletin no. 100.) *H.M.S.O. 1945. pp.24, 8 illus. 9d.* [426

Great Britain. Ministry of information. Land at war: the official story of British farming, 1939–44. *H.M.S.O. 1945. pp.96, illus. 1s. 6d.* [427

C. McWilliams. Ill fares the land. Migrants and migratory labour in the United States. *Faber. 1945. pp.245. 12s. 6d.* [428

D. H. Robinson, *ed.* Vegetable and fruit growers' conferences. *Worcester: Littlebury. 1945. pp.64. 6s.* [429

Sir E. J. Russell, *ed.* Agriculture: to-day and to-morrow. *Michael Joseph. 1945. pp.199, figs., tables. 8s. 6d.* [430

B. Intermediate books

W. Burns. Technological possibilities of agricultural development in India. A note. *Lahore: Government printing office. 1944. pp.cxi.127. 3s.* [431

Great Britain. Department of agriculture for Scotland. Report of the committee on agricultural education in Scotland, 10 December 1945. (Cmd. 6704.) *H.M.S.O. 1945. pp.42. 9d.* [432

Great Britain. Ministry of agriculture and fisheries. Report of the committee on higher agricultural education in England and Wales. (Cmd. 6728.) *H.M.S.O. 1946. pp.86. 1s. 3d.* [433

W. P. Seabrook. Modern fruit growing. 7th ed. *Benn. 1945. pp.307, illus. 10s.* [434

R. Cecil Wood. A note-book of tropical agriculture. 3rd ed. *Trinidad: Imperial college of tropical agriculture. 1945. pp.147 10s. 6d.* [435

AGRICULTURAL ECONOMICS

B. Intermediate books

Karl Brandt. The reconstruction of world agriculture. *A. & U. 1945. pp.viii.5–216, tables, charts. 21s.* [436

Great Britain. Colonial office. The sugar industry of Fiji: report by Dr. C. Y. Shephard. (Colonial no. 188.) *H.M.S.O. 1945. pp.60, 6 maps, tables. 1s.* [437

A. F. Gustafson and others. Conservation in the United States. 2nd ed. *124 Roberts Place, Ithaca, N.Y.: Comstock. 1944. pp.xi.477.* $4. [On the conservation of the soil, mines, forests, and waters.] [438

CROPS

A. Books of general interest

Great Britain. Ministry of agriculture and fisheries. Threshing of grass, root and vegetable seed crops. (Bulletin 130.) *H.M.S.O. 1945. pp.20, 2 pl., diagrs. 9d.* [439

Great Britain. Ministry of agriculture and fisheries. Winter (broccoli) and summer cauliflower. (Bulletin no. 131.) *H.M.S.O. 1945. pp.16, 8 pl. 9d.* [440

T. Whitehead, T. P. McIntosh and W. N. Findlay. The potato in health and disease. 2nd ed. revised. *O. & B. 1945. pp.xvi.400, plates, diagrs., tables. 25s.* [441

B. Intermediate books

A. M. Massee. The pests of fruits and hops. 2nd ed. (Agricultural and horticultural handbooks.) *Crosby Lockwood. 1945. pp.283, front., 26 pl. 21s.* [442

H. Wormald. Diseases of fruits and hops. 2nd ed. revised. *Crosby Lockwood. 1945. pp.294, illus. 21s.* [443

DAIRY FARMING AND LIVESTOCK

A. Books of general interest

V. C. Fishwick. Pigs: their breeding, feeding and management. 2nd ed. revised. *Crosby Lockwood. 1945. pp.222, plates, tables, diagrs. 12s. 6d.* [444

Allan Fraser. Sheep farming. *Crosby Lockwood. 1945. pp.178, 24 figs. 12s. 6d.* [445

B. Intermediate books. (See also 464)

E. R. Cochrane. The milch cow in England. *Faber. 1946. pp.348, 14 pl., 14 figs. 16s.* [446

J. E. Nichols. Livestock improvement in relation to heredity and environment. 2nd ed. *O. & B. 1945. pp.216, illus. 10s. 6d.* [447

FORESTRY

A. Books of general interest. (See also 472)

Great Britain. Forestry commission. The thinning of plantations. (Forest operations series no. 1.) *H.M.S.O. 1945. pp.40, tables. 9d.* [448

W. L. Taylor. Forests and forestry in Great Britain. *Crosby Lockwood. 1945. pp.x.172, 21 photos. 12s. 6d.* [449

C. Advanced or specialized books

Gold Coast colony. Forestry in the northern territories of the Gold Coast. By R. C. Marshall. *Accra: Government printing office. 1945. pp.12. 1s.* [*450*

SOIL SCIENCE

A. Books of general interest

D. P. Hopkins. Chemicals, humus and the soil. *Faber. 1945. pp.278. 12s. 6d.* [*451*

B. Intermediate books

Sir H. Glover. Erosion in the Punjab, its causes and cure: a survey of soil conservation. *Lahore: Civil and military gazette. 1944. pp.ix.143, 115 pl. 23s.* [*452*

METALLURGY

A. Books of general interest. (See also 413, 417)

W. Barr and A. J. K. Honeyman. Steel and its practical applications. 2nd ed. *Blackie. 1945. pp.xii.156, illus. 8s. 6d.* [*453*

B. Intermediate books

F. Johnson. Metal working and heat-treatment manual. v. 1. Carbon steels. *Elek. c. 1945. pp.204, 110 figs., 38 tab., fold. chart. 17s. 6d.* [*454*

D. M. Liddell. Handbook of non-ferrous metallurgy. 2nd ed. *McG.-H. 1945. pp.xi.656+xi.721, illus. 39s.+42s.* [*455*

C. Advanced or specialized books. (See also 325)

M. H. Mawhinney. The heating of steel. *New York: Reinhold; London: C. & H. 1945. pp.vii.265, 220 figs. 28s. 6d.* [*456*

Quasi-arc company. Quasi-arc welding manual. *Bilston, Staffs.: The company. 1945. pp.168. 3s. 6d.* [*457*

United States. Navy department: Bureau of ships. Foundry manual: melting and moulding of ferrous and non-ferrous metals and alloys. *Washington, D.C.: Government printing office; London: H.M.S.O. 1945. pp.157. 45 cents.* [*458*

N. E. Woldman and R. J. Metzler. Engineering alloys: names, properties, uses. 2nd ed. [*Cleveland, Ohio: American society for metals. 1945.*] *pp.832. $10 ($8 to members of the society).* [*459*

D. Dictionaries, yearbooks, &c. (See also 418)

American society for testing materials and American institute of mining and metallurgical engineers. Symposium on stress-corrosion cracking of metals. *Philadelphia: The society; New York: The institute. 1945. pp.495. $8.* [*460*

Quin's metal handbook and statistics 1945. [See annuals list A181.] *Metal information bureau. 1946. pp.368. 10s.* [*461*

W. H. Simon, *ed.* American arc welding patents. v. 1. Materials, accessories. *Bailey bros. 1945. pp.574, 426 illus. 210s.* [*462*

MANUFACTURES AND RAW MATERIALS

GENERAL

A. Books of general interest

E. Frankland Armstrong and L. Mackenzie Miall. Raw materials from the sea. *Leicester: Constructive publications. 1945. pp.xi.164, 21 pl., 22 tab. 15s.* [*463*

B. Intermediate books. (See 370)

FOOD TECHNOLOGY

B. Intermediate books

P. T. Ziegler. The meat we eat. *Danville, Ill.: Interstate printers and publishers. 1944. pp.377, illus. $2.70.* [On slaughtering, preserving, grading, and other aspects of meat technology.] [*464*

LEATHER

B. Intermediate books

G. D. McLaughlin and E. R. Theis. The chemistry of leather manufacture. (American chemical society monograph series no. 101.) *New York: Reinhold. 1945. pp 800, illus. $10.* [*465*

MECHANICAL TRADES

B. Intermediate books. (See also 312)

Ioverth C. Peate. Clock and watch makers in Wales. *Cardiff: National museum of Wales. 1945. pp.85, 7 pl., 11 illus. 3s.* [*466*

PLASTICS

C. Advanced or specialized books

H Ronald Fleck. Plastics—scientific and technological. 2nd ed. *Temple press. 1946. pp.x.361, col. front., 90 figs., tables. 30s.* [*467*

PRINTING AND PAPER

B. Intermediate books

A. W. Werner. Manufacture of fibre shipping containers. 2nd ed. revised. *228 N. La Salle St., Chicago: Board products publishing co. 1945. pp.81. $2.* [*468*

C. Advanced or specialized books

I. H. Sayre. Single color offset press. *Chicago: Lithographic textbook publishing co. 1944. pp.284. $6.* [*469*

D. Dictionaries, yearbooks, &c.

W. B. Wheelwright, *comp.* Paper trade terms: a glossary for the allied trades. *Boston: Callaway associates. 1944. pp.[40]. $1.50.* [*470*

TEXTILES

A. Books of general interest. (See 297)

C. Advanced or specialized books. (See also 404)

Harold De Witt Smith. Textile fibers: an engineering approach to their properties and utilization. *Philadelphia: American society for testing materials. 1945. pp.64. $1.* [*471*

TIMBER

A. Books of general interest

E. H. B. Boulton and B. A. Jay. British timbers. 2nd ed. *Black. 1945. pp.120, 31 pl. 12s. 6d.* [*472*

BUILDING

A. Books of general interest

Great Britain. Ministry of works. School buildings for Scotland. By a committee appointed by the Secretary of State for Scotland. (Post-war building studies no. 21.) *H.M.S.O. 1945. pp.42, illus. 1s.* [*473*

B. Intermediate books. (See also 399)

E. G. Blake. Roof coverings: their manufacture and application. 2nd ed. *C. & H. 1945. pp.212, illus. 15s.* [474

Great Britain. Ministry of education. Education for industry and commerce. Building crafts. (Pamphlet no. 4.) *H.M.S.O. 1945. pp.73. 1s.* [475

Great Britain. Ministry of health: Central housing advisory committee. Report on the conversion of existing houses. *H.M.S.O. 1945. pp.51. 1s.* [476

Great Britain. Ministry of works. Heating and ventilation of dwellings. (Post-war building studies no. 19.) *H.M.S.O. 1945. pp.228, tables, diagrs. 2s. 6d.* [477

J. E. Macfarlane. Electricity in the house. (Teach yourself building series.) *Sevenoaks, Kent: English universities press. 1945. pp.203, 8 pl., illus. 3s. 6d.* [478

John Madge, *ed.* To-morrow's houses. New building methods, structures and materials. *Pilot press. 1946. pp.336, illus. 18s.* [479

C. Advanced or specialized books

Great Britain. Department of scientific and industrial research. Building research board. Repair of damaged buildings. *Garston, Herts.: The board. 1945. gratis.* No. 18. Reinforced concrete columns damaged by fire. No. 19. The repair of solid concrete and hollow tile floors damaged by fire. [480

J. Singleton-Green. Limestone concrete. *C. & H. 1945. pp.viii.80, illus. 8s. 6d.* [481

D. Dictionaries, yearbooks, &c. (See also 402, 403)

Spon's practical builders' price book 1946. ed. Clyde Young and B. Engel. *Spon. 1946. pp.570. 12s. 6d.* [482

TOWN PLANNING

A. Books of general interest. (See 256, 398)

B. Intermediate books

H. S. Churchill. The city is the people. *New York: Reynal & Hitchcock. 1945. pp.186, illus. $3.* [483

ARCHITECTURE

A. Books of general interest

M. S. Briggs. Round the shires. *Jenkins. 1945. pp.303, illus. 15s.* [484

A. H. Gardner. Outline of English architecture. An account for the general reader. *Batsford. 1945. pp.vi.122, 154 illus. 12s. 6d.* [485

B. Intermediate books

R. J. Schunk. Pointers for public library building planners. *Chicago: American library association. 1945. pp.67. $1.25.* [486

H. J. Southmayd and others. Small community hospitals. *New York: Commonwealth fund; London: O.U.P. 1944. pp.ix.182. 8s. 6d.* [487

GEOGRAPHY

A. Books of general interest. (See also 261, 264, 346)

S. P. Turin. The U.S.S.R. 2nd ed. revised. *Methuen. 1945. pp.234, 8 maps, 18 diagr., 67 tab. 16s.* [488

C. Advanced or specialized books. (See 351)

D. Dictionaries, yearbooks, &c. (See 269)

ASLIB BOOK-LIST

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GENERAL

A. Books of general interest

John J. Clarke. The local government of the U.K. 13th ed. *Pitman. 1945. pp.975. 25s.* [*489*

J. C. Tarr. Printing to-day. *O.U.P. 1945. pp.183. 5s.* [*490*

C. Kent Wright. The A B C of local government. *Evans. 1945. pp.208. 4s. 6d.* [*491*

B. Intermediate books. (See also 511)

C. E. Balleisen. Principles of firearms. *New York: Wiley; London: C. & H. 1945. pp.146. 15s.* [*492*

C. Advanced or specialized books

Royalty agreements: a guide for the use of publishers prepared by the Council of the Publishers' Association, 1938, and revised in 1944–46. *Publishers' assoc. 1946. pp.48. 3s. 6d.* [*493*

F. E. Zeuner. Dating the past: an introduction to geochronology. *Methuen. 1946. pp.444, illus. 30s.* [*494*

D. Dictionaries, year-books, &c. (See also 498, 515)

Who's who 1946. [See annuals list A13.] *Black. 1946. pp.3050. 90s.* [*495*

BIOGRAPHIES

A. Books of general interest. (See also 720)

W. L. Howard. Luther Burbank, a victim of hero worship. *Waltham, Mass.: Chronica botanica co.; London: Wm. Dawson. 1946. pp.229–520. $3.75.* [*496*

Frank Lloyd Wright. An autobiography. *Faber. 1945. pp.486, 76 pl. 25s.* [*497*

C. Advanced or specialized books. (See 674)

DICTIONARIES

M. Newmark. Dictionary of science and technology: English, French, German, and Spanish. *Pitman. 1946. pp.386. 30s.* [*498*

LIBRARIANSHIP

B. Intermediate books

E. H. Ashburner. Modern public libraries, their planning and design. *Grafton. 1946. pp.176, illus. 25s.* [*499*

References throughout this issue to the 'annuals list' refer to a companion publication entitled 'Classified list of annuals and year books'.

Owing to present conditions, all prices quoted are liable to alteration.

C. E. Rush, *ed.* Library resources of the University of North Carolina. *Chapel Hill, N. Carolina: University press; London: O.U.P. 1946. pp.274. 21s. 6d.* [A summary of facilities for study and research.] [500

PSYCHOLOGY

C. Advanced or specialized books

H. Crighton-Miller. Psycho-analysis and its derivatives. *O.U.P. 1946. pp.272. 3s. 6d.* [501

EDUCATION

A. Books of general interest

Arts enquiry: the visual arts. A report sponsored by the Darlington Hall Trustees. *O.U.P. 1946. pp.183. 10s. 6d.* Includes section on design in industry.] [502

J. Barzun. We who teach. *Gollancz. 1946. pp.218. 10s. 6d.* [A survey of school teaching in America.] [503

J. C. Hiscock and **W. Seaman.** Modern school engineering: a practical approach to motor engineering for post-primary schools. *Temple press. 1945. pp.37. 7s. 6d.* [504

G. Wilson Knight. The dynasty of Stowe. 2nd ed. *Fortune press. 1946. pp.145. 10s. 5d.* [The history and development of Stowe school.] [505

David W. Oates. The new secondary schools and the selection of their pupils. *Harrap. 1946. pp.60. 2s.* [506

Barbara Priestman. Froebel education to-day. *London university press. 1946. pp.40. 2s. 6d.* [507

W. Kennett Richmond. Education in England. *Harmondsworth: Penguin books. 1945. pp.220. 1s.* [508

Scotland. Department of education. Report on technical education. (Cmd. 6786.) *Edinburgh: H.M.S.O. 1946. pp.118. 2s.* [509

B. Intermediate books

Archbishop's commission. The church and education. The report of the Archbishop's commission. *Press and publications board of the church assembly. 1946. pp.26. 1s.* [510

Association of women science teachers. Science in post-primary education. Second part of the report of a sub-committee of the association of women science teachers. *Murray. 1946. pp.vi.57. 1s. 3d.* [511

D. H. Stott. Language teaching in the new education. *London university press. 1946. pp.100. 2s. 6d.* [512

C. Advanced or specialized books

Lydia Jackson and **Kathleen M. Todd.** Child treatment and the therapy of play. *Methuen. 1946. pp.ix.115. 8s. 6d.* [513

Elizabeth A. Taylor. Experiments with a backward class. *Methuen. 1946. pp.viii.112. 6s.* [514

D. Dictionaries, year-books, &c.

W. C. Coker, *ed.* Studies in science. *Chapel Hill, N. Carolina: University press; London: O.U.P. 1946. pp.386. 18s. 6d.* [A jubilee publication, a catalogue of studies at the university.] [515

ECONOMICS

GENERAL

A. Books of general interest

A. N. Agarwala. Pessimism in planning. *Allahabad: Kitab-Mahal. 1945. pp.320. Rs. 5.12.* [Shows the obstacles to economic progress and reconstruction in India.] [*516*

McGill university. Selling tomorrow's production. *Montreal: The university. 1945. pp.78. Paper-bound, $1.00. Cloth-bound, $1.50.* [*517*

B. Intermediate books. (See also 535, 633, 727)

G. C. Allen. A short economic history of modern Japan. *A. & U. 1946. pp.200. 10s. 6d.* [*518*

A. Baykov. The development of the Soviet economic system. *C.U.P. 1946. pp.514. 30s.* [*519*

S. Chase. Tomorrow's trade. Problems of our foreign commerce. *New York: Twentieth century fund. 1945. pp.x.156. $1.00.* [*520*

J. Dorfman. The economic mind in American civilization, 1606–1865. 2 vols. *New York: Viking press. 1946. pp.xii.987. $7.50.* [*521*

K. Mandelbaum assisted by **J. R. L. Schneider.** The industrialisation of backward areas. (Institute of Statistics, Monograph No. 2.) *Oxford: Blackwell. 1945. pp.viii.112. 10s. 6d.* [*522*

V. K. R. V. Rao. Planning economic transition from war to peace in India. *Bombay. Vora and co. 1945. pp.80. Rs. 1.8.* [*523*

C. Advanced or specialized books. (See also 537, 568, 638)

J. S. Bain. The economics of the Pacific coast petroleum industry, Pt. 2: price, behaviour, and competition. *California: University press; London: C.U.P. 1946. pp.xvi.438, 50 figs., 24 tabs. 33s.* [*524*

L. M. Kingsbury. The economics of housing. *O.U.P. 1946. pp.190. 16s. 6d.* [*525*

W. E. Moore. Economic demography of eastern and southern Europe. *Geneva: League of nations; New York: Columbia university press; London: A. & U. 1945. pp.299. $3.00.* [*526*

D. Dictionaries, year-books, &c.

Great Britain. Customs and Excise. Trade of the U.K. with British and foreign countries. Annual statement 1944, compared with 1940–43. Vol. 2. *H.M.S.O. 1946. pp.464. 3s.* [*527*

Institute of actuaries year book, 1945–46. *C.U.P. 1945. pp.xii.241. 3s.* [*528*

BANKING AND FINANCE

D. Dictionaries, year-books, &c.

Bankers' almanac and year book for 1945–46. 101 ed. *Skinner. 1946. pp.2203. 60s.* [*529*

H. Taylor, *comp.* Handbook of the West African gold mines. *London; New York; Melbourne; Sydney: Hutchinson's scientific and technical publications. 1946. pp.110. 16s.* [*530*

INDUSTRY

A. Books of general interest

M. P. Fogarty. Prospects of the industrial areas of Great Britain. *Methuen. 1945. pp.xxxv.492. 32s.* [531

B. Intermediate books. (See also 522)

A. J. Conyers. The law of contracts in a nutshell: with epitomes of leading cases. 4th ed. by R. Millner. *Sweet & Maxwell. 1945. pp.84. 6s.* [A refresher course for law students.] [532

M. E. Dimock. The executive in action. *New York: Harper bros. 1945. pp.ix.276. $3.* [533

A. H. Huckle. Economics as applied to production and factory organization. *Mitre press. 1946. pp.139. 15s.* [534

E. Mayo. Social problems of an industrial civilization. *Boston: Harvard university. 1945. pp.xvii.150. $2.50.* [535

C. Advanced or specialized books. (See also 662)

J. W. Hendry. A manual of time and motion study: a practical guide to the measurement of human endeavour in industry and to the development of productive efficiency. *Pitman. 1946. pp.215. 13s. 6d.* [536

League of nations. Industrialization and foreign trade. *Geneva: The league; London: A. & U. 1945. pp.171. 7s. 6d.* [537

H. Samuels. The law of trade unions. *Stevens and sons, ltd. 1946. pp.93. 5s.* [538

H. N. Smart and **P. N. Blackwell.** Solicitors' accounts. 2nd ed. *Solicitors law stationery society. 1945. pp.vii.128. 15s.* 'Includes the Solicitors' accounts rules, 1945, and the Solicitors' trust accounts rules, 1945.' [539

INSURANCE

A. Books of general interest

A. N. Agarwala. Health insurance in India. *Allengunj, Allahabad: East end publishers. 1945. pp.iv.145. 8s.* [540

A. N. Agarwala. Social insurance planning in India. *Allahabad: Dikshit press. 1945. pp.218. 10s.* [541

TRANSPORT AND COMMUNICATIONS

A. Books of general interest (See also 618)

G. Dow. The first railway between Manchester and Sheffield. *London and north eastern railway. 1945. pp.44. 3s. 6d.* [542

B. Intermediate books

W. E. Wynn. Civil air transport. *Hutchinson. 1946. pp.123. 16s.* [543

C. Advanced or specialized books

M. Heuvelmans. Cargo deadweight distribution. *New York: Cornell maritime press. 1945. pp.86. $1.50.* [544

MATHEMATICS

A. Books of general interest

H. G. and L. R. Lieber. Modern mathematics for T. C. Mits (The Celebrated Man in the Street). *A. & U. 1946. pp.x.230. 7s. 6d.* 'A witty and amusing account of some aspects of mathematics.' [*545*

Herbert McKay. The world of numbers. *C.U.P. 1946. pp.vii,198. 8s. 6d.* [*546*

B. Intermediate books

F. M. Colebrook. Basic mathematics for radio students. *Iliffe. 1946. pp.x.270, 77 diagrs. 10s. 6d.* [*547*

H. McKay. Practical mathematics for all: a simplified but complete course of arithmetic, algebra, geometry, trigonometry, and calculus, with copious examples and exercises. *Odhams press. 1946. pp.416. 6s. 6d.* [*548*

C. Advanced or specialized books. (See also 564, 691)

C. Chevalley. Theory of the Lie Groups, 1. (Princeton mathematical series, 8.) *Princeton: University press; London: O.U.P. 1946. pp.230. 20s.* [*549*

O. Neugebauer and **A. Sachs,** *ed.* Mathematical cuneiform texts. *New Haven, Conn.: American oriental society. 1945. pp.x.177, 49 pl. $5.* [*550*

H. A. Simmons. Plane and spherical trigonometry. 2nd ed. *New York: Wiley; London: C. & H. 1946. pp.xi.387. 13s. 6d.* [*551*

D. Dictionaries, year-books, &c.

A. Fletcher, J. C. P. Miller, and **L. Rosenhead.** An index of mathematical tables. *25 Bedford Square, London, W.C. 1: Scientific computing service. 1946. pp.viii.451. 75s.* 'A comprehensive, selective list; an essential bibliographical guide for the computer.' [*552*

ASTRONOMY

B. Intermediate books. (See also 620, 621)

G. Z. Dimitroff and **J. Baker.** Telescopes and accessories. (Harvard books on astronomy.) *Philadelphia: Blakiston. 1945. pp.309. $2.50.* [*553*

Z. Kopal. An introduction to the study of eclipsing variables. *Cambridge, Mass.: Harvard university press; London: O.U.P. 1946. pp.230. 22s. 6d.* [*554*

C. Advanced or specialized books

W. Moss. Distribution and movements of solar prominence areas. (Annals of Solar physics observatory, Cambridge, vol. 3. pt. 3.) *C.U.P. 1946. pp.119–128, 3 pl. 5s.* [*555*

PHYSICS

A. Books of general interest

Martin Davidson. The mid-twentieth century atom. *Hutchinson. 1946. pp.127. diagrs. 8s. 6d.* [An outline of the modern conceptions of the structure of the atom, and the possibilities of industrial atomic energy.] [*556*

Great Britain. Foreign office. Atomic energy: report on international control of atomic energy. *H.M.S.O. 1946. pp.viii.44. 1s.* [*557*

B. Intermediate books. (See also 619)

F. Frank. Foundations of physics. *Chicago: University press; London: C.U.P. 1946. pp.vi.78. 5s.* [*558*

D. Gabor. The electron microscope: its development, present performance and future possibilities. *Hutchinson. 1946. pp.104. 4s. 6d.* [559

G. Gamow. Mr. Tompkins explores the atom. *C.U.P. 1945. pp.97. 10s. 6d.* [Further adventures of 'Mr. Tompkins in wonderland' gives in non-technical language the scientific background to the release of atomic energy.] [560

B. K. Johnson. Practical optics. *Hatton press. 1945. pp.viii.189. 15s.* [561

S. Tolansky. Introduction to atomic physics. 2nd ed. *Longmans. 1945. pp.343. 15s.* [562

H. E. Wimperis. World power and atomic energy. *Constable. 1946. pp.viii.88, 5 pl. 6s.* [563

C. Advanced or specialized books. (See also 614, 625)

H. O. Newboult. Analytical methods in dynamics. *O.U.P. 1946. pp.88. 7s. 6d.* [564

CHEMISTRY AND CHEMICAL TECHNOLOGY

A. Books of general interest. (See 556)

B. Intermediate books. (See 571, 684)

C. Advanced or specialized books. (See also 572, 573, 575, 710)

J. A. McClintock and **W. B. Fisher.** Spray chemicals and application equipment. A textbook and handbook of the insecticide-fungicide industry and of application equipment. *LaGrange, Ind.: Horticultural press. 1945. pp.320, illus. $4, domestic, $5 export price.* [565

Organic synthesis. An annual publication of satisfactory methods for the preparation of organic chemicals. Vol. 25. *New York. Wiley: London: C. & H. 1945. pp.vi.120. 12s.* [566

F. F. Purdon and **V. W. Slater.** Aqueous solution and the phase diagram. *Arnold. pp.iv.167, 47 diagrs. 24s.* [567

R. N. Shreve. Chemical process industries. *McG.-H. 1945. pp.957. 45s.* 'A review of industrial chemistry from the standpoint of the chemical engineer.' [568

N. Troensegaard. On the structure of the protein molecule. 2nd ed. *Copenhagen: Einar Munksgaard; London: O.U.P. 1944. pp.126. 14 Danish crowns. 17s. 6d.* [569

T. F. West and **G. A. Campbell.** D.D.T.: the synthetic insecticide. *C. & H. 1946. pp.xii.301. 21s.* [570

D. Dictionaries, year-books, &c. (See 576, 693)

FUEL TECHNOLOGY

B. Intermediate books. (See 712)

Norman Smith. Gas manufacture and utilization. *British gas council. 1945. pp.222, illus. 5s.* [571

C. Advanced or specialized books (see also 524)

V. J. Altieri. Gas analysis and testing of gaseous materials. *New York: American gas association. 1945. pp.567, 184 illus. $7.50.* [572

Institute of petroleum. Standard methods for testing petroleum and its products. 7th ed. *The institute. 1946. pp.xl.550. 15s.* [573

Park J. Jones. Petroleum production. Vol. 1. Mechanics of production: oil, condensate, natural gas. *New York: Reinhold. 1946. pp.228, illus. $4.50.* [574

A. R. Myhill. Retort-house technical control. *Walter King ltd. 1945. pp.125, 6 illus. 12s. 6d.* [575

D. Dictionaries, year-books, &c.

Gas Journal calendar and directory. *Walter King, ltd. 1946. pp.244. gratis.* [576

GEOLOGY AND MINERALOGY

B. Intermediate books

K. C. Dunham and **H. G. Dines.** Barium minerals in England and Wales. Geological survey wartime pamphlet no. 46. *The survey. 1945. pp.150, illus. 6s. 9d.* [577

E. M. Guppy and **J. Phemister.** Special reports on the mineral resources of Great Britain: rock wool. *H.M.S.O. 1945. pp.46. 9d.* [578

D. Dictionaries, year-books, &c.

Chambers's mineralogical dictionary. *Chambers. 1946. pp.84, 40 col. pl. 10s.* [579

CRYSTALLOGRAPHY

C. Advanced or specialized books. (See 705)

METEOROLOGY

A. Books of general interest

A. B. Tinn. This weather of ours. *A. & U. 1946. pp.147, 3 pl. 10s. 6d.* [580

B. Intermediate books

R. W. Mudge. Meteorology for pilots. *McG.-H. 1946. pp.259, illus., chart. 18s.* [581

C. Advanced or specialized books

F. A. Berry, E. Bollay and **N. R. Beers.** Handbook of meteorology. *McG.-H. 1945. pp.x.1068, 3 pl. 45s.* [582

BIOLOGY

B. Intermediate books

R. S. Lillie. General biology and philosophy of organism. *Chicago: University press. 1945. pp.215, illus. 16s. 6d.* [583

C. Advanced or specialized books. (See 691)

BIOCHEMISTRY

C. Advanced or specialized books

W. R. Fearson. Introduction to biochemistry. 3rd rev. ed. *Heinemann. 1946. pp.x.569. 21s.* [Emphasis has been placed on animal calorimetry, carbon dioxide transport, energy transformation, and blood chemistry.] [584

BOTANY

A. Books of general interest

T. C. Mansfield. Shrubs in colour and cultivation. (Garden in colour series.) *Collins. 1946. pp.264, 80 pl., illus. 21s.* [585

E. D. Merrill. Plant life of the Pacific world. *New York: Macmillan. 1945. pp.xv.295, 256 figs. $3.50.* [586

B. Intermediate books. (See also 587)

D. Rhind., The grasses of Burma. *Calcutta: Baptist mission press. 1945. pp.99. 7s. 6d.* [587

ZOOLOGY

A. Books of general interest. (See also 697, 698, 724)

C. H. Curran. Insects of the Pacific world. *Macmillan. 1946. pp.xv.317, 97 illus. $3.75.* [588

C. G. Going. Dogs at war. With an introduction by L. Thomas. *New York: Macmillan. 1945. pp.xii.179. $2.50.* [589

W. E. Kesley. The spell of the honey bee. *C. & H. 1945. pp.viii.264, 49 pl. 15s.* [The annual cycle of life in the bee colony, and information on practical beekeeping, pests, and diseases are given.] [590

C. P. Staples. Birds in a garden sanctuary. *Warne. 1946. pp.192. 31 pl. 12s. 6d.* [591

B. Intermediate books. (See also 699)

Salim Ali. Birds of Kutch. *O.U.P. 1945. pp.xviii.175, 35 pl. 35s.* [The results of an ornithological survey carried out in Kutch State in 1943 and 1944.] [592

H. F. Barnes. Gall midges of economic importance. Vol. 1. Gall midges of root and vegetable crops. Vol. 2. Gall midges of fodder crops. *Lockwood. 1946. pp.104+160, illus. vol. 1. 12s. 6d. vol. 2. 15s.* [593

C. T. Brues. Insect dietary, an account of the food habits of insects. *Cambridge, Mass.: Harvard university press. 1946. pp.xxvi.466. illus. $5.00.* [594

C. J. Gahan. Furniture beetles: their life history and how to check or prevent the damage caused by the worm. 4th ed. revised and enlarged by Frederick Laing. (Economic series, British Museum (Natural history) no. 11.) *British museum (Natural history). 1946. pp.28, illus. 6d.* [595

R. R. Kudo. Protozoology. 3rd ed., rev. and enlarged. *Springfield, Ill.: Charles C. Thomas; London: Ballière. 1946. pp.xiii.778. 44s. ($8).* [596

F. Laing. The cockroach: its life-history and how to deal with it. (Economic series, British museum (Natural history) no. 12.) *British museum (Natural history). 1946. pp.28, illus. 6d.* [597

D. N. Roy. Entomology (medical and veterinary). *Calcutta: Saraswaty library. 1946. pp.xii.358, illus. Rs. 30.* [598

H. M. Smith. Handbook of lizards: lizards of the United States and of Canada. *Ithaca, N.Y.: Comstock. 1946. pp.xxi.557. 34s. 6d.* [599

B. Vesey-Fitzgerald. British game. (New naturalist series.) *Collins. 1946. pp.240, 81 illus., 24 col. pl. 16s.* [600

C. Advanced or specialized books

E. A. Benbrook. List of parasites of domesticated animals in North America. *Minneapolis, Minnesota: Burgess publishing co. 1945. pp.44. $1.25.* [601

D. Dictionaries, year-books, &c. (See also 702)

W. J. Chamberlain. Entomological nomenclature and literature, 2nd ed. *Ann Arbor, Mich.: Edwards bros., inc. 1946. pp.xi.135 multigraphed, frontis. No price stated.* [602

MEDICINE

C. Advanced or specialized books

L. Nicholls. Aids to tropical hygiene. 3rd ed. *Baillière. 1946. pp.217, 6 pl. 6s.* [603

D. Dictionaries, year-books, &c.

Medical register, 1946. *Constable. 1946. pp.2233. 21s.* [604

PHARMACY AND PHARMACOLOGY

A. Books of general interest

Pharmacopoeia Londinensis of 1618. Reproduced in facsimile, with a historical introduction by George Urdang. *Madison, Wis.: State historical society of Wisconsin. 1944. pp.ix.299. $12.* [605

B. Intermediate books

T. Dewar. A textbook of forensic pharmacy. *Arnold. 1946. pp.xvi.253. 19s. 6d.* [606

H. A. McGuigan and **E. E. Krug.** An introduction to materia medica and pharmacology. 4th ed. *Kimpton. 1945. pp.536, illus., col. pl. 18s.* [607

T. E. Wallis. Textbook of pharmacognosy. *Churchill. 1946. pp.514, figs. 28s.* [608

D. Dictionaries, year-books, &c.

Pharmaceutical society of Great Britain. The British pharmaceutical codex 1934, supplements 1–7 (bound together). *Pharmaceutical press. 1946. pp.406. 21s.* [609

VETERINARY SCIENCE

B. Intermediate books. (See 598)

C. Advanced or specialized books. (See 601)

NUTRITION

C. Advanced or specialized books

Medical research council. The chemical composition of foods. By R. A. McCance and E. M. Widdowson. *H.M.S.O. 1946. pp.156. 6s.* [610

Medical research council. An experimental study of rationing. By R. A. McCance and E. M. Widdowson. *H.M.S.O. 1946. pp.61. 1s.* [611

ENGINEERING

GENERAL

A. Books of general interest. (See 682)

B. Intermediate books. (See also 708)

E. Pull. Boiler house practice. 2nd ed. *Technical press ltd. 1945. pp.vi.282. 16s. 6d.* [612

C. Advanced or specialized books

R. D. Chellis. Pile driving handbook. *New York: Pitman. 1946. pp.276, illus., diagrs. 25s.* [613

E. R. Maurer, R. J. Roark, and **G. W. Washa.** Mechanics for engineers. *New York: Wiley; London: C. & H. 1946. pp.xvii.425. 249 figs. 28s.* [614

D. Dictionaries, year-books, &c.

F. J. Camm. Newnes's engineers' reference book. *Newnes. 1946. pp.1326. 42s.* [615

L. St. L. Pendred, *ed.* Kemp's engineers' year book, 1946. [See Annuals list A 100.] *Morgan bros. 1946. pp.2897. 45s.* [616

AERONAUTICAL

A. Books of general interest

A. H. Lukins. The book of Miles aircraft. Ed. D. A. Russell. *Harborough. 1946. pp.96, illus. 10s. 6d.* [617

H. E. Wimperis. Aviation. *O.U.P. 1945. pp.184. 3s. 6d.* [Includes civil aviation, aviation in relation to world security, and principles of radiolocation and jet propulsion.] [618

B. Intermediate books. (See also 543, 581, 637, 658)

John Grierson. Jet flight. *Low. 1946. pp.286, illus. 18s.* [A detailed account of the development of jet propelled aircraft from the early work of Frank Whittle to 1945.] [619

A. J. Hughes. A history of air navigation. *A. & U. 1946. pp.154, 76 illus. 10s. 6d.* [620

R. K. Vandervord. The A B C of practical astro-navigation. *Pitman. 1946. pp.56. 6s.* [621

G. W. Williamson. The aircraft engineers' 'A' licence: an instruction book for the air registration board examinations for the 'A' (restricted) and 'A' licences, with recommended reading and test questions. *Newnes. 1945. pp.256. 17s. 6d.* [622

G. W. Williamson. Aircraft engineers' 'C' licence. *Newnes. 1946. pp.viii.256, col. front., 92 diagrs. 17s. 6d.* [623

C. Advanced or specialized books

Charles E. Chapel. Aircraft electricity for the mechanic. *New York: Coward McCann. 1946. pp.477, illus. $5.00.* [624

Paul E. Hemke. Elementary applied aerodynamics. (Prentice-Hall aeronautical series.) *New York: Prentice-Hall. 1946. pp.231, illus. $3.25.* [625

E. E. Sechler and **L. G. Dunn.** Airplane structural analysis and design. *New York: Wiley; London: C. & H. 1942. pp.420. 24s.* 'The volume is one of the Guggenheim Aeronautical Laboratory series, and its export from America during the war was forbidden.' [626

F. S. Stewart. Airframe materials. *McG.-H. 1945. pp.x.237, illus. 15s.* [627

P. H. Sumner. Introduction to aircraft performance. *Lockwood. 1946. pp.83. 7s. 6d.* [628

D. Dictionaries, year-books, &c.

H. Nelson. Dictionary of aeronautical terms. *Pitman. 1946. pp.vi.178. 10s. 6d.* [629

Civil

C. Advanced or specialized books. (See also 613)

British welding research association. Moment distribution method for rigid frame steel structures loaded beyond the yield point. Report No. FE. 1/6/25. *The association. 1946. pp.8. 7s. 6d.* [630

D. H. Lee. Sheet piling, cofferdams, and caissons. *Concrete publications. 1945. pp.191. 10s. 6d.* [631

Electrical

A. Books of general interest

R. C. Norris, *ed.* Principles of electricity illustrated: a practical guide for beginners and more experienced craftsmen engaged in electrical work. *Odhams. 1946. pp.384. 8s. 6d.* [632

B. Intermediate books

F. H. Dennis. Electricity—public or private monopoly. *Gollancz. 1945. pp.143. 7s. 6d.* [633

R. W. Frazier. Elementary electric circuit wiring. *McG.-H. 1946. pp.434, chart, diagrs. 20s.* [634

F. G. Spreadbury. Electric discharge lamps. *Pitman. 1946. pp.136, diagrs. 15s.* [635

W. E. Steward. Electricians' maintenance manual. *Newnes. 1946. pp.144, illus. 6s.* [636

S. G. Wybrow. Electrical and wireless equipment of aircraft. 5th ed. *Pitman. 1946. pp.190. 8s. 6d.* [637

C. Advanced or specialized books. (See also 624, 653, 660, 666)

H. H. Ballin. The organisation of electricity supply in Great Britain. *Electrical press. 1946. pp.340. 21s.* [638

Daniel H. Brayner and **A. C. Roe.** Repairing diagrams and connecting tables for lap-wound induction motors; practical step-by-step information and instructions for connecting all types of windings for two-phase and three-phase motors of two to twenty-four poles. 2nd ed. *New York: McG.-H. 1946. pp.387, illus. $3.50.* [639

F. C. De Weese. Transmission lines: design, construction, and performance. *McG.-H. 1945. pp.297. 21s.* [640

H. B. Dwight. Electrical coils and conductors: their electrical characteristics and theory. *McG.-H. 1946. pp.ix.352. 30s.* [641

H. D. James and **L. E. Murkle.** Controllers for electric motors. *McG.-H. 1946. pp.324, 305 diagrs. 21s.* [642

H. A. Miller. Luminous tube lighting: dealing with the principles of the luminous tube, with a summary of the materials and equipment involved, and technical data concerning discharge-tube light sources. *Newnes. 1945. pp.143. 10s. 6d.* [643

R. C. H. Richardson. The commissioning of electric plant. (Mon. elect. enginrg. ser.) Ed. H. P. Young. 2nd rev. ed. *C. & H. 1946. pp.xii.372, 181 figs. 25s.* [644

W. Wilson. The cathode ray oscillograph in industry. 2nd rev. ed. *C. & H. 1946. pp.xii.244, 194 illus. 18s.* [645

H. P. Young. Electric power system control. (Mon. on elect. enginrg. ser.) 2nd rev. ed. *C. & H. 1946. pp.xii.369, 249 figs. 25s.* [646

D. Dictionaries, year-books, &c.

K. Edgecumbe. Whittaker's electrical engineers' pocket-book. R. E. Neale, ed. 7th rev. ed. *Pitman. 1946. pp.938, diagrs. 30s.* [647

W. H. Fowler, *ed.* Fowler's electrical engineers' pocket book, 1946. [See Annuals list A 119.] *Scientific publications company. pp.542. 4s.* [648

'Mechanical world' electrical year book, 1946. *Manchester and London: Emmott and co. ltd. 1946. pp.160. 2s. 6d.* [649

G. W. Stubbings. Dictionary of electrical engineering. *Spon. 1946. pp.219. 10s. 6d.* [650

INTERNAL COMBUSTION ENGINES

A. Books of general interest. (See 504)

B. Intermediate books

V. L. Maleev. Internal combustion engines: theory and design. 2nd ed. *McG.-H. 1946. pp.xii.636. 30s.* [651

C. Advanced or specialized books. (See 653)

MARINE—SHIPS AND SHIPBUILDING

C. Advanced or specialized books. (See also 544)

Association of engineering and shipbuilding draughtsmen. Helical gears for marine turbines. *Draughtsman publishing co. ltd. 1945–6. pp.42. 2s.* [652

C. W. Codrington. Diesel-electric drive in marine service. *Cleveland, Ohio: The author, Cleveland diesel engine division, General motors corp. 1945. pp.104. gratis.* [653

D. Dictionaries, year-books, &c.

J. M. Labberton, *ed.* Marine engineers' handbook, with the general engineering fundamentals reproduced from 'Mechanical engineers' handbook' (L. S. Marks, ed.). *McG.-H. 1945. pp.2013. 45s. $7.50.* [654

MECHANICAL

B. Intermediate books

British welding research association. Pressure welding of light alloys without fusion. *The association. 1946. pp.16. 5s.* [655

W. A. J. Chapman. Workshop technology, Book 2. *Arnold. 1946. pp.viii.328, 288 illus. 10s. 6d.* [Covers all aspects of machine tool work.] [656

F. H. Colvin and **F. A. Stanley.** Standard and emergency shop methods. *McG.-H. 1945. pp.1333, diagrs., charts. 21s.* [657

A. Sipowicz. The principles of fitting. *Newnes. 1945. pp.168. 12s. 6d.* [Practical and theoretical, aircraft and automobile engineering.] [658

C. Advanced or specialized books. (See also 652, 705, 707)

British welding research association. Arc welded structural steelwork, I: Stanchion bases, caps, and joints. Report No. T. 17. *The association. 1946. pp.11. 9d.* [659

British welding research association. Transfer of material, temperature and stability in the electric welding arc. Report FM. 4-4/27. *The association. 1946. pp.22. 7s. 6d.* [660

D. Carmichael. Helical gears for marine turbines. *Draughtsman publishing co. 1946. pp.42. 2s.* [661

E. E. Fluskey. The economics of automatic machine operation: the monetary and production advantages of automatics in relation to capstan lathes. *Brighton: Machinery publishing co. 1946. pp.80. 7s. 6d.* [662

J. J. Hall. Steel hardening, tempering, and annealing. *Newnes. 1945. pp.160. 6s.* [663

H. L. Harvill and **P. R. Jordan.** High-pressure die casting: a design guide for engineers. *Vernon, California: H. L. Harvill manufacturing co. 1945. pp.130. $5.* [664

A. J. Hipperson. Relationship between welding conditions and the strength and quality of single spot welds in deep drawing quality mild steel sheet in thicknesses from 20 to 14 S.W.G. Report No. FR. *The association. 1946. pp.72. 1s. 9d.* [665

Murex welding processes, ltd. Handbook for electric welders. Rev. ed. *Waltham Cross: The company. 1945. pp.184. 5s.* [666

T. C. Plumridge, R. W. Boyd, Jr., and **J. McKinney, Jr.** Machine tool guide: engineering data covering the principal machine tools especially prepared for tool engineers, millwrights, and tool equipment salesmen. *Chicago: American technical society. 1945. pp.630. 52s. 6d.* [667

D. Dictionaries, year-books, &c.

F. H. Colvin and **F. A. Stanley.** American machinists handbook and dictionary of shop terms: a reference book of machine-shop and drawing-room data, methods and definitions. 8th ed. *McG.-H. 1945. pp.1546, illus. 30s.* [668

MINING

B. Intermediate books. (See also 577)

H. C. Harris. Colliery managers' examination new guide. 3rd ed. *Griffin. 1945. pp.389. 15s.* [669

C. Advanced or specialized books. (See also 524, 574)

A. F. Taggart. Handbook of mineral dressing. 2nd ed. of 'Handbook of ore dressing'. *New York: Wiley; London: C. & H. 1945. pp.viii.1926, illus. 90s. $15.00.* [670

D. Dictionaries, year-books, &c. (See also 530)

W. E. Skinner, *ed.* Mining year book, 1946. *Skinner. 1946. pp.640. 30s.* [671

RAILWAY

A. Books of general interest. (See 542)

C. Advanced or specialized books

Illinois engineering experiment station. Effect of the ratio of wheel diameter to wheel load on extent of rail damage. Reprint No. 33. *Illinois: The university. 1945. pp.19. 15c.* [672

Illinois engineering experiment station. Investigation of railroad rails and joint bars. Reprint No. 32. *Illinois: The university. 1945. pp.48. 30c.* [*673*

O. S. Nock. The locomotives of Sir Nigel Gresley. *London: The railway publishing co.; London, New York, and Toronto: Longmans. 1945. pp.181. 10s. 6d.* [*674*

SANITARY

B. Intermediate books. (See 712, 713)

C. Advanced or specialized books. (See 714)

WIRELESS

A. Books of general interest

R. W. Hallows. Radar. *C. & H. 1946. pp.140, illus. 7s. 6d.* [*675*

B. Intermediate books. (See also 547, 637)

B. F. Weller. Radio-technology. 2nd rev. ed. *C. & H. 1946. pp.368, 113 figs. 21s.* [*676*

C. Advanced or specialized books

F. Scowen. An introduction to the theory and design of electric wave filters. *C. & H. 1945. pp.164. 15s.* [*677*

T. H. Turney. Electric filters. *Pitman. 1946. pp.170. diagrs. 25s.* [*678*

AGRICULTURE

GENERAL

A. Books of general interest

M. E. Bruce. Common-sense compost making by the quick return method. *Faber. 1946. pp.84, 7 pls. 4s. 6d.* [*679*

R. B. Dawson. Practical lawncraft. Foreword by Sir R. G. Stapledon. 2nd ed. *Lockwood. 1945. pp.306. 15s.* [*680*

R. Ede. Farming: an introduction. (Pitman Farming books.) *Pitman. 1945. pp.xiv.146. 4s.* [A general book written for school pupils over fourteen years, and for those entering farm institutes.] [*681*

Farm machinery. On your metal: the agricultural broadcast discussions on farm machinery. *Worcester: Littlebury. 1946. pp.80, 8 pl. 7s. 6d.* [*682*

B. Intermediate books. (See also 565, 593, 703)

R. Ede. The principles of agriculture. (Farm institute series.) *Pitman. 1946. pp.272. 15s.* [The first introductory volume in a series intended to cover the various aspects of agriculture.] [*683*

M. P. Gandhi. Problems of the sugar industry in India. Scope and prospects of re-organisation in post-war period. *Bombay: Gandhi & co. 1945. pp.xxxv.266. xviii.30. Rs. 12.* [*684*

G. A. Holmes. Revolution in agriculture. *Todd. 1946. pp.128. 6s.* [Summary of British agricultural methods as studied by a New Zealand agriculturist.] [*685*

A. Howard. An agricultural testament. *O.U.P. 1945. pp.xv.253. 15s.* [Discusses soil fertility, indoor processes, health and disease in agriculture, and present day agricultural research.] [*686*

E. F. Hurt. Sun-flower for food, fodder and fertility. *Faber. 1946. pp.155, 9 diagrs., 30 pl. 10s. 6d.* [687

H. I. Moore. Good husbandry. *A. & U. 1946. pp.107, illus. 10s.* [688

H. Schwartz. Seasonal farm labor in the United States. *New York: Columbia University press; London: O.U.P. 1945. pp.xiv.172. $2.25. 15s. 6d.* [689

F. Sykes. Humus and the farmer. *Faber. 1946. pp.288, 37 pl., 2 maps, 2 diagrs. 12s. 6d.* [690

C. Advanced or specialized books

G. W. Snedecor. Statistical methods applied to experiments in agriculture and biology. *Ames, Iowa: Collegiate press. 1946. pp.xvi.485, tables. $4.50.* [691

J. M. Watkins. The forage resources of Latin America: El Salvador. Bulletin 35 of the Imperial bureau of pastures and forage crops. *Aberystwyth: Imperial agricultural bureaux. 1946. pp.24. 2s. 6d.* [692

D. Dictionaries, year-books, &c.

M. P. Gandhi. The Indian sugar industry (1944 Annual). *Bombay: Gandhi & co. 1945. pp.xxxvi.90.29. Rs. 6.8.* [693

AGRICULTURAL ECONOMICS

B. Intermediate books. (See also 689, 691)

F. W. Bateson, *ed.* Towards a socialist agriculture: studies by a group of Fabians. *Gollancz. 1946. pp.xii.186, tabs. 6s.* [694

T. W. Schultz. Agriculture in an unstable economy. *New York: McG.-H. 1945. pp.xix.299, charts, tables. $2.75.* [695

CROPS

A. Books of general interest

A. H. Hoare. Vegetable crops for market. *Lockwood. 1945. pp.188, 34 figs., tabs. 12s. 6d.* [696

DAIRY FARMING AND LIVESTOCK

A. Books of general interest. (See also 590)

G. A. Carter. Bees and honey. *Petts Wood, Kent: 'Bee craft'. 1946. pp.114. 4s.* [697

S. B. Whitehead. Honey bees and their management. *Faber. 1945. pp.153. 12s. 6d.* [698

B. Intermediate books

R. B. Kelley. Animal breeding. *Angus & Robertson. 1946. pp.296. 15s.* [699

Wm. C. Miller and E. D. S. Robertson. Practical animal husbandry. 4th ed. *Edinburgh and London: O. & B. 1946. pp.xii.536. 20s.* [700

G. M. Odlum. An analysis of the Manningford herd of British Friesians. rev. ed. *Devizes: Wiltshire gazette printing works. pp.226, illus. 31s. 6d.* [701

C. Advanced or specialized books. (See 601)

D. Dictionaries, year-books, &c.

Autosexing breeds' association. Autosexing annual, 1946. *The association. 1946. pp.56. 1s.* [702

HORTICULTURE

A. Books of general interest. (See 496, 585, 679, 680)

B. Intermediate books

J. M. S. Potter. National fruit trials 1921–44. *The royal horticultural society. 1945. pp.56. 5s.* [703

SOIL SCIENCE

D. Dictionaries, year-books, &c.

Imperial bureau of soil science. Bibliography of soil science, fertilizers and general agronomy 1940–44. *Harpenden: The bureau. 1946. pp.567. 25s.* [704

METALLURGY

C. Advanced or specialized books. (See also 664)

Illinois engineering experiment station. Grain sizes produced by re-crystallization and coalescence in cold-rolled cartridge brass. Bulletin No. 359. *Illinois: The university. 1945. pp.55. 70c.* [705

MANUFACTURES AND RAW MATERIALS

GLASS

A. Books of general interest

D. M. J. Davidson. Glass and glazing. *Lockwood. 1946. pp.84, pl., 13 figs. 5s.* [706

PLASTICS

C. Advanced or specialized books

J. H. Du Bois and **W. L. Pribble.** Plastics mold engineering. *Kingston: Technical press. 1946. pp.504, 331 illus., diagrs., tables. 45s* [707

RUBBER

B. Intermediate books

Andre rubber co., ltd. Elastomeric engineering: describing the scientific process of manufacturing rubber units for the requirements of the engineering and shipbuilding industries. 2nd ed. *Tolworth: the company. 1945. pp.168. 21s.* [708

TEXTILES

A. Books of general interest

John H. Strong. Foundations of fabric structure. *National trade press. 1946. pp.254, illus. 21s.* [709

C. Advanced or specialized books

J. T. Marsh. An introduction to textile bleaching. *C. & H. pp.xiii.512. 32s.* [710

TIMBER

B. Intermediate books. (See 595)

C. Advanced or specialized books

Timber development association. Timber seasoning. *The association. 1945. pp.112, illus. gratis.* [711

BUILDING

A. Books of general interest. (See 706)

B. Intermediate books

R. N. Le Fevre. A manual of gas fitting. *Walter King ltd. 1946. pp.895, illus. 30s.* [712

E. Molloy, *ed.* Plumbing and gas-fitting. *Newnes. 1946. pp.374, 600 illus. 15s.* [713

C. Advanced or specialized books. (See also 525, 630, 711)

J. B. Pinkerton. Questions and answers on heating and ventilation. *Princes press. 1946. pp.93. 5s. 6d.* [714

TOWN AND COUNTRY PLANNING

A. Books of general interest. (See also 531)

F. J. Osborn. Green-belt cities: the British contribution. *Faber. 1946. pp.191. 12s. 6d.* [Discusses the problems of town-planning, lay-out, architecture, planting, and finance.] [715

W. Smith. Physical survey of Merseyside. A background to town and country planning. *Liverpool: University press. 1946. pp.97. 5s.* [716

B. Intermediate books

Great Britain. Ministry of town and country planning. Merseyside plan 1944. By F. Longstreth Thompson. Supplementary illustrations. *H.M.S.O.* 1945. *pp.73, 12 pl., 3 maps. 7s. 6d.* [717

Ebenezer Howard. Garden cities of tomorrow. *Faber. 1946. pp.160. 6s.* [718

C. Advanced or specialized books. (See 525)

D. Dictionaries, year-books, &c.

F. J. Osborn, *ed.* Planning and reconstruction, 1946. *Todd. 1946. pp.770. 21s.* [719

ARCHITECTURE

A. Books of general interest. (See 497)

PHOTOGRAPHY

A. Books of general interest

E. O. Hoppe. Hundred thousand exposures. *Focal press. 1945. pp.226, 70 illus. 13s. 6d.* [720

C. Douglas Milner. Mountain photography: its art and technique in Britain and abroad. *Focal press. 1946. pp.232, 222 illus. 19s. 6d.* [721

Marcel Natkin. Photography by artificial light: at home, in the street, and in the theatre. New ed. *Fountain press. 1946. pp.80. 7s. 6d.* [722

H. S. Newcombe. 35mm. photo technique. *Focal press. 1946. pp.294. 15s.* [723

G. K. Yeates. Bird photography. *Faber. 1946. pp.114. pls. 12s. 6d.* [724

B. Intermediate books. (See also 561)

J. M. Blair. Practical and theoretical photography. 2nd ed. *Pitman. 1945. pp.238. 7s. 6d.* [725

D. Dictionaries, year-books, &c.

A. J. Dalladay, *ed.* The British journal photographic almanac, Vol. 81. 1946. [See Annuals list A 208.] *Greenwood. 1946. pp.411, illus., pl. 3s.6d.; cloth 5s.* [726

GEOGRAPHY

B. Intermediate books

A. W. Currie. Economic geography of Canada. *Macmillan. 1946. pp.xiv.455. map. 16s.* [727

UNIVERSAL DECIMAL CLASSIFICATION

The English edition of the Universal Decimal Classification is in preparation by the British Standards Institution. The following parts have already been published.

B.S. 1000: Vol. 1, Part 1.	General introduction.	
	Auxiliary tables.	
	Class 0	Generalities. *Price 7s. 6d.*
B.S. 1000: Vol. 2, Part 1.	Class 50	General works on pure science.
	Class 51	Mathematics.
	Class 52	Astronomy, Geodesy.
	Class 53	Physics. *Price 10s.*
B.S. 1000 Vol. 2, Part 2.	Class 54	Chemistry. *Price 10s.*
B.S. 1000. Vol. 2, Part 3.	Class 55	Geology, Geophysics.
	Class 56	Palaeontology.
	Class 57	Biology.
	Class 58	Botany.
	Class 59	Zoology. *Price 10s.*

ASLIB BOOK-LIST

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GENERAL

A. Books of general interest. (See also 806)

Alexander Fleming and others. Science broadcasts, v. 2. *Worcester: Littlebury and co. pp.110. 8s.6d.* [Compiled from a series of broadcast talks describing the latest discoveries in the various fields of science.] [*728*

S. Unwin. The truth about publishing. 4th rev. ed. *A. & U. 1946. pp.352, 4 illus. 8s.5d.* [*729*

B. Intermediate books

P. Honig and F. Verdoorn, *ed.* Science and scientists in the Netherlands Indies. *New York: Board for the Netherlands Indies, Surinam and Curaçao, 10 Rockefeller Plaza; London: W. Dawson and sons. 1945. 21s. or $4.00.* 'Compiled to present a picture of the development and status of a number of branches of the natural sciences, pure and applied, in the Netherlands Indies.' [*730*

C. Advanced or specialized books

Great Britain. Privy council. Barlow committee report on scientific man-power. *H.M.S.O. 1946. pp.26. 6d.* [*731*

D. Dictionaries, year-books, &c.

R. R. Hawkins, *ed.* Scientific, medical, and technical books published in the United States of America, 1930–44. *New York: R. R. Bowker Co., New York 19. 1946. pp.xv.1129. $20.00.* [*732*

Willing's press guide, 1946. 72nd annual ed. [See annuals list A16.] *Willing's press service. 1946. 8s.6d.* [*733*

BIBLIOGRAPHIES

D. Dictionaries, year-books, &c. (See 732)

BIOGRAPHIES

A. Books of general interest. (See 866)

DICTIONARIES

(See also 878, 879)

A. Bray, *ed.* Russian–English scientific technical dictionary. *New York: International university press. 1945. pp.xvi.551. 50s.* [*734*

LIBRARIANSHIP

A. Books of general interest

L. R. McColvin and J. Revie. British libraries. (British life and thought series.) *British council. Longmans. 1946. pp.43, 11 illus. 1s.* [*735*

References throughout this issue to the 'annuals list' refer to a companion publication entitled 'Classified list of annuals and year books'.

Owing to present conditions, all prices quoted are liable to alteration.

D. Dictionaries, year-books, &c.

Library association. Year book, 1946. *The association. 1946. pp.158. 2s.6d.* [736

PSYCHOLOGY

C. Advanced or specialized books

G. H. Thomson. The factorial analysis of human ability. 2nd. ed. revised and enlarged. *University of London press. 1946. pp.xvi.386. 20s.* [737

EDUCATION

A. Books of general interest. (See also 865)

M. Alderton Pink. The challenge to democracy. *Faber. 1946. pp.118. 10s.6d.* 'The author concentrates on the training of the individual in the duties and rights of citizenship.' [738

Sir Ernest Barker. British universities. (British life and thought: No. 24.) *Longmans. 1946. pp.38, illus. 1s.* [739

Glasgow academy. The Glasgow academy—the first hundred years. *Blackie. 1946. pp.xii.277, illus. 8s.6d.* [740

H. Jacob, *ed.* On the choice of a common language. *Pitman. 1946. pp.xiv.129. 7s.6d.* 'This book is edited by Mr. Jacob for the New Education of Fellowship. The various constructed languages are discussed and the last section of the book deals with Basic English.' [741

M. V. C. Jeffrys. Education: christian or pagan? (Educational issues of to-day. Edited by W. R. Niblett.) *University of London press. 1946. pp.94. 4s.* [742

Constantia Maxwell. A history of Trinity College, Dublin, 1591–1892. *Dublin: University press. 1946. pp.xiii.299. 15s.* [743

T. Raymont. Modern education. New edition of 'Education'. *Longmans. 1946. pp.237. 8s.6d.* [744

Marjorie Reeves. Growing up in a modern society. (Educational issues of to-day. Edited by W. R. Niblett.) *University of London press. 1946. pp.126. 4s.6d.* [745

A. L. Rowse. The use of history. *Hodder and Stoughton. 1946. pp.xi.247. 4s.6d.* 'An introductory volume to the series of books "Teach yourself history".' [746

Bruce Truscot. First year at the University. A freshman's guide. *Faber. 1946. pp.108. 4s.6d.* [An introduction to the academic and social sides of English university life, by the author of 'Redbrick university'.] [747

B. Intermediate books

H. B. Allen. Rural education and welfare in the Middle East. *H.M.S.O. 1946. pp.vi.24, 1 col. map. 1s.6d.* [748

D. N. E. Dymes, *ed.* Synthesis in education. *Malvern: Le Play house press. 1946. pp.80. 5s.* 'Collection of addresses given at the summer conference organised by the Institute of sociology in Cambridge in 1944.' [749

Great Britain. Ministry of education. Pamphlet No. 5. Special educational treatment. *H.M.S.O. 1946. pp.36. 9d.* [750

A. C. Hilton and J. E. Audric. The school farm. *Harrap. 1946. pp.159, illus. 8s.6d.* 'A description of an experiment with a school farm at the Lingfield County Secondary School.' [751

R. A. C. Oliver. Research in education. *A. & U. 1946. pp.60. 5s.* [752

Vincent Owen. World youth. Suggestions for the establishment of permanent international youth community centres and the training of young people in world citizenship. *Newport, Mon.: The author, 17, Aston Crescent. 1946. pp.49, illus. 1s.* [753

C. Advanced or specialized books

Vivian de Sola Pinto. The teaching of English in schools. A symposium. *Macmillan. 1946. pp.166. 10s.6d.* 'Edited for the English Association, with a foreword by Sir Fred Clarke.' [754

D. Dictionaries, year-books, &c.

C. H. Deane, A. P. W. Deane, and L. W. Taylor, *ed.* The public and preparatory schools year book, 1946. 57th annual ed. *Year book publishers. 1946. pp.xxx. 905. 12s.6d.* [755

ECONOMICS

General

A. Books of general interest

E. Batson. The poverty line in Salisbury (South Africa). *Cape Town: University, School of social science and social administration. 1945. pp.26. 1s.6d.* [756

R. N. Bhargava. Price control and rationing. *Allahabad: Kitabistan. 1945. pp.124. Rs.4.8.* 'Statement both of the needs to ration in India and of the difficulties and obstacles to doing so.' [757

R. Firth. Malay fishermen: their peasant economy. *Kegan Paul, Trench, Trubner and co. 1946. pp.354. 25s.* [758

M. Fogarty. The reform of local government finance in England and Wales. *Fabian publications and Gollancz. 1946. pp.40. 2s.* [759

H. M. Groves. Post-war taxation and economic progress. *McG.-H.* 1946. *pp.xiv.422. 22s.6d.* [760

R. G. Hawtrey. Economic rebirth: the dangers and difficulties of the post-war economic situation explained in straightforward language. *Longmans. 1946. pp.161. 5s.* [761

Charlotte Luetkens. Women and a new society. *Nicholson and Watson. 1946. pp.128, illus. 6s.* 'An interesting discussion of the changing pattern of women's lives since the industrial revolution.' [762

Helen M. Lynd. England in the eighteen-eighties: toward a social basis for freedom *O.U.P. 1945. pp.viii.508. 21s.* [763

A. G. McGregor. Collective bargaining and decadence. The solution of Britain's gravest problem. *Pitman. 1946. pp.79. 5s.* [764

E. Mantoux. The Carthaginian peace—or the economic consequences of Mr. Keynes. *O.U.P. 1946. pp.xvii.210. 12s.6d.* [765

L. Meriam. Relief and social security. *Washington, D.C.: Brookings institution. 1946. pp.xx.912. $5.00.* [766

J. H. G. Pierson. Full employment in practice. *New York: University, Institute on post-war reconstruction. 1946. pp.26. 25c.* [767

A. C. Pigou. Income. An introduction to economics. *Macmillan. 1946. pp. vii.117. 5s.* [768

H. E. Ronimois. Russia's foreign trade and the Baltic sea. *Boreas publishing co. 1946. pp.51. 2s.9d.* [769

T. Singh. Poverty and social change. A study in the reorganization of Indian rural society. *Longmans Green. 1945. pp.200. 6s.* [770

A. E. Taylor. Foreign trade and full employment. *New York: University, Institute on post-war reconstruction. 1946. pp.20. 25c.* [771

C. N. Vakil and J. J. Anjaria. The future of the rupee. *Bombay: Popular book depot. 1945. pp.39. Rs.1.4.* [772

T. Wilson. Fluctuations in income and employment. *Pitman. 1945. pp.x.213. 18s.* [773

B. Intermediate books. (See also 798)

H. P. Bishop. Retail marketing of furnace oil. *Cambridge, Mass.: Harvard university, Graduate school of business administration. 1946. pp.42. 50c.* [774

J. B. D. Derksen. A system of national book-keeping. *C.U.P. 1946. pp.31. 5s.* 'Illustrated by the experience of the Netherlands economy.' [775

C. Advanced or specialized books

G. C. Allen and others. The import trade of the port of Liverpool, future prospects. *Liverpool: University press. 1946. pp.109. 5s.* [776

J. Charlesworth. The principles of company law. 4th ed. *Stevens and sons, Sweet and Maxwell. 1945. pp.261. 10s.6d.* [777

A. H. Hansen. Fiscal policy for full employment. *New York: University, Institute on post-war reconstruction. 1946. pp.23. 25c.* [778

O. J. McDiarmid. Commercial policy in the Canadian economy. *Cambridge, Mass.: Harvard university press; London: O.U.P. 1946. pp.xii.397. 25s.6d.* [779

C. A. Newport. Income tax law and practice. 17th ed. *Sweet and Maxwell. 1945. pp.392. 15s.* [780

E. W. Swanson and E. P. Schmidt. Economic stagnation or progress. *McG.-H. 1946. pp.205. 15s.* [781

J. P. Wernette. Financing full employment. *Cambridge, Mass.: Harvard university press; London: O.U.P. 1945. pp.xi.126. 11s.6d.* [782

BANKING AND FINANCE

A. Books of general interest

C. A. Abbott. Financing business during the transition. *McG.-H. 1946. pp. xii.133. 9s.* [783

A. C. Gilpin. India's sterling balances. *Fabian publications and Gollancz. 1946. pp.19. 6d.* [784

C. Advanced or specialized books

H. Menderhausen. Changes in income distribution during the great depression. *New York: National bureau of economic research. 1946. pp.xviii.173. $2.50.* [785

K. N. Niehyl. Studies in the classical theories of money. *New York: Columbia university press; London: O.U.P. 1946. pp.xii.190. 16s.6d.* [786

INDUSTRY

A. Books of general interest. (See also 821)

E. A. Silverman, *ed.* Studies in industrial organization. *Methuen. 1946. pp. xvii.362. 20s.* [787

B. Intermediate books. (See 809, 868)

C. Advanced or specialized books. (See also 777)

C. L. Boling. Sales management. 3rd ed. rev. by C. H. Young. *Pitman. 1946. pp.409. 15s.* 'On market research, methods of distribution, credit policy, sales organization, advertising, commercial and hire-purchase law, and export.' [788

T. G. Rose. Higher control in management. 4th ed. *Pitman. 1945. pp.279. 15s.* 'A method of setting out the facts and figures of a business to indicate its trend, activities, which are profitable, and those which are not.' [789

TRANSPORT AND COMMUNICATIONS

A. Books of general interest

Great Britain. Ministry of war transport. Railway (London plan) committee, 1944: report to the Minister of war transport. *H.M.S.O. 1946. pp.26. 2s.6d.* [790

Lord Monkswell. Railways and their future. *Benn. 1946. pp.96. 3s.6d.* [791

Sir Ralph Wedgwood. International rail transport. *O.U.P. 1946. pp.174. 10s.6d.* [792

M. Zwalf. European transport: the way to unity. *Fabian publications and Gollancz. 1946. pp.39. 2s.* [793

B. Intermediate books. (See also 874, 882)

R. Bell. History of British railways during the war, 1939–45. *Railway gazette, 33 Tothill Street, S.W.1. 1946. pp.285. 25s.* [794

G. A. Gilbert. Air traffic control. *Michigan Square Building, 540 N. Michigan Avenue, Chicago 11; 231 Strand, London: Ziff-Davis. 1945. $5.* [795

C. Advanced or specialized books. (See also 888)

G. O. Dykstra and L. G. Dykstra. The business law of aviation. *McG.-H. 1946. pp.523. 30s.* [796

D. Dictionaries, year-books, &c. (See 879, 900)

MATHEMATICS

B. Intermediate books

A. A. Albert. College algebra. *McG.-H. 1946. pp.xii.278. 1946. 14s.* 'An elementary introduction to modern algebraic theories.' [797

W. L. Crum and J. A. Schumpeter. Rudimentary mathematics for economists and statisticians. *McG.-H. 1946. pp.ix.183. $2.50.* [798

F. W. Kellaway. Examples in applied mathematics. *Blackie. 1946. pp.110. 4s.* 'A useful adjunct to a text-book on this subject.' [799

C. Advanced or specialized books

Manual of operation for the automatic sequence controlled calculator. (Annals of the computation laboratory, 1) *Cambridge, Mass.: Harvard university press; London: O.U.P. 1946. pp.561, 17 pl. 56s.* [800

R. V. Southwell. Relaxation methods in theoretical physics. *O.U.P. 1946. pp.vi.248. 20s.* 'A further volume of applications of the Southwell relaxation method.' [801

D. Dictionaries, year-books, &c.

P. Barlow. Barlow's tables of squares, cubes, square roots, cube roots and reciprocals of all integer numbers up to 12,500. 4th ed. Revised by L. J. Comrie. *Spon. 1946. pp.272. 12s.6d.* [802

ASTRONOMY

A. Books of general interest

F. L. Whipple. Earth, moon and planets. (Harvard series.) *Churchill. 1946. pp.300, 139 illus., 1 chart. 18s.* [803

C. Advanced or specialized books

W. A. Hiltner and R. C. Williams. Photometric atlas of stellar spectra. *Ann Arbor, Mich.: Michigan university press; London: O.U.P. 1946. pp.28, 258 charts. 142s.* [804

PHYSICS

A. Books of general interest

J. G. Daunt. Electrons in action. (Introduction to science series.) *Sigma. 1946. pp.148, 8 pl. 6s.* [An account in non-technical language of the basic principles of electricity in terms of the activity of electrons.] [805

Bertrand Russell. Physics and experience. (The Henry Sidgwick lecture delivered at Newnham College, Cambridge, 10 November 1945.) *C.U.P. 1946. pp.25. 1s.6d.* [806

B. Intermediate books

G. M. Chute. Electronics in industry. *McG.-H. 1945. pp.461, diagrs. 25s.* [807

V. E. Cosslett. Introduction to electron optics. *O.U.P. 1946. pp.272, 8 pl. 25s.* [808

D. Dietz. Atomic energy: now and in the future. *Vesthouse. 1946. pp.172, illus. 10s.6d.* [Survey of the possibilities of atomic power in industry, transportation, and everyday life.] [809

F. E. J. Ockenden. Introduction to the electron microscope. (Monographs of Quekett microscope club series.) *Williams and Northgate. 1946. pp.24, 27 illus. 2s.6d.* [810

J. Stockley. Electrons in action. *McG.-H. 1946. pp.320, illus. 18s.* [811

C. Advanced or specialized books. (See also 801, 835)

E. F. Burton and W. H. Kohl. The electron microscope. 2nd rev. ed. *New York: Reinhold; London: C. & H. 1946. pp.325. 24s.* [*812*

Serge A. Kerff. Electron and nuclear counters: theory and use. *New York: Van Nostrand. 1946. pp.212, illus. $3.00.* [*813*

Winifred Lewis. Thin films and surfaces. *Temple press. 1946. pp.70, 27 pl., diagrs., tabs. 15s.* [*814*

J. Markus and Von Zeluff. Electrons for engineers. *McG.-H. 1946. pp.390, chart. 35s.* [*815*

M. H. Pirenne. The diffraction of x-rays and electrons by free molecules. (Physical chemistry series.) *C.U.P. 1946. pp.xii.160, 2 pl., 82 figs., 8 tabs. 12s.6d.* [*816*

H. Rouse. Elementary mechanics of fluids. *New York: Wiley; London: C. & H. 1946. pp.376. 24s.* [*817*

G. Temple. The general principles of the quantum theory. 3rd ed. *Methuen. 1946. pp.120. 4s.6d.* [*818*

E. R. Zworykin, G. A. Morton, and E. C. Ramberg. Electron optics and the electron microscope. *New York: Wiley; London: C. & H. 1946. pp.xi.766, 378 figs. 60s.* [*819*

CHEMISTRY AND CHEMICAL TECHNOLOGY

A. Books of general interest

G. Leffingwell and H. Lesser. Soap in industry. *Brooklyn, N.Y.: Chemical publishing co. 1946. pp.204. $4.00.* [*820*

R. B. Pilcher and F. Butler-Jones. What industry owes to chemical science. *Cambridge: Heffer. 1945. pp.372. 18s.* [Each industry is taken in turn, and the influence of chemistry and invention in producing new processes is shown.] [*821*

A. G. Ward. Colloids: their properties and applications. *Blackie. 1945. pp.133. 5s.* [*822*

B. Intermediate books. (See also 843, 931)

W. T. Frier and A. C. Heller. Introduction to industrial chemistry. *McG.-H. 1946. pp.268, figs. 15s.* [*823*

Samuel Glasstone. The elements of physical chemistry. *New York: Van Nostrand. 1946. pp.685, illus. $4.50.* [*824*

C. A. Jacobson, *comp.* Encyclopedia of chemical reactions. Vol. 1. *New York: Reinhold. 1946. pp.804. $10.* [Vol. 1 contains aluminium, antimony, arsenic, barium, baryllium, bismuth, boron, bromine.] [*825*

W. Klyne. Practical chemistry for medical students. *Edinburgh: Livingstone. 1946. pp.460, 39 figs. 20s.* [*826*

E. B. Millard. Physical chemistry for colleges. Ed. P. L. Hammett. 6th rev. ed. *McG.-H. 1946. pp.688, illus. 22s.6d.* [*827*

H. T. Opershaw. A laboratory manual of qualitative organic analysis. *C.U.P. 1946. pp.viii.96. 6s.* [*828*

W. G. Palmer. Experimental physical chemistry. *C.U.P. 1946. pp.321. 12s.6d.* [829

F. Prescott. Intermediate chemistry: inorganic and physical. 2nd ed. *University tutorial press. 1946. pp.vi.828. 14s.* [830

C. Tyler. Organic chemistry for students of agriculture (and allied subjects). *A. & U. 1946. pp.viii.341. 15s.* [831

C. Advanced or specialized books. (See also 818, 852, 917, 955)

Herbert Abraham. Asphalts and allied substances: their occurrence, modes of production, uses in the arts, and methods of testing. 5th ed. 2 vols. *New York: Van Nostrand; London: C. & H. 1945. pp.xiii.887+viii.1254. 100s. the two vols.* [832

Jerome Alexander, *ed.* Colloid chemistry, theoretical and applied. Vol. 6: General principles and specific industries, synthetic polymers and plastics. *New York: Reinhold. 1945. pp.1215, illus. $20.00.* [833

R. Belcher and A. L. Godbert. Semi-micro quantitative analysis. *Longmans. 1945. pp.viii.168. 10s.6d.* [834

E. J. Bowen. The chemical aspects of light. 2nd ed. *O.U.P. 1946. pp.304. 15s.* [835

Gustav Egloff. Physical constants of hydrocarbons. Vol. 3. Mononuclear aromatic hydrocarbons. (American chemical society monograph series.) *New York: Reinhold; London: C. & H. 1946. pp.xiii.661, illus. $15.00 or 90s.* [836

M. Linson and John T. Edsall, *eds.* Advances in protein chemistry. Vol. 2. 1946. *New York: Academic press inc. 1945. pp.xiii.443. $6.50.* [837

F. Schneider. Organic qualitative microanalysis. *New York: Wiley; London: C. & H. 1946. pp.iv.218. 134 figs. 21s.* [838

E. W. R. Steacie. Atomic and free radical reactions: the kinetics of gas-phase reaction involving atoms and organic radicals. (American chemical society monograph series.) *New York: Reinhold; London: C. & H. 1946. pp.548, illus. $8.00 or 51s.* [839

A. Weissberger, *ed.* Physical methods of organic chemistry. Vols. 1 and 2. *New York: Interscience publications inc. 1945. pp.viii.736,+viii.737–1367. 51s. each.* [840

D. Dictionaries, year-books, &c.

J. F. Thorpe and M. A. Whiteley. Thorpe's dictionary of applied chemistry. 4th ed. Vol. 7: Iodazide—metallagic acid. *Longmans. 1946. pp.629. 80s.* [841

FUEL TECHNOLOGY

A. Books of general interest. (See 909)

B. Intermediate books. (See also 774)

J. L. Catton. Combustion and modern coal-burning equipment. *Pitman. 1946. pp.121, illus., diagrs. 10s.6d.* [842

G. M. Gill. A manual of carbonization in horizontal retorts. *Walter King ltd. 1946. pp.68, illus. 3s.* [843

D. Dictionaries, year-books, &c. (See 991)

METEOROLOGY

D. Dictionaries, year-books, &c. (See 879)

BIOLOGY

B. Intermediate books. (See also 857, 931)

D. C. Rife. The dice of destiny: an introduction to human heredity and racial variations. *Columbus, Ohio: Long's college book co. 1945. pp.163. $1.75.* [*844*

C. Advanced or specialized books. (See also 862)

H. J. Conn. Biological stains. 5th ed. *Geneva, New York: Biotechnical publications. 1946. pp.346. 20s.* [*845*

A. Fischer. Biology of tissue cells: essays. Translated from the Danish. *Copenhagen: Gyldendal; London: C.U.P. 1946. pp.viii.348, 15 tabs., 55 figs. 31s.6d.* [*846*

P. S. Hudson and R. H. Richens. The new genetics in the Soviet Union. *Aberystwyth: Imperial agricultural bureaux. 1946. pp.88. 6s.* [*847*

D. E. Lea. Actions of radiations on living cells. *C.U.P. 1946. pp.xii.402. 21s.* [Deals with some of the biological effects of ionizing radiations.] [*848*

BIOCHEMISTRY

B. Intermediate books. (See 931)

C. Advanced or specialized books. (See 837)

BOTANY

A. Books of general interest

J. Ramsbottom. Poisonous fungi. *Harmondsworth: Penguin books ltd. 1945. pp.31, 16 col. pl. 2s.* [*849*

B. Intermediate books. (See also 931, 943)

F. N. Howes. Plants and beekeeping. *Faber. 1945. pp.224, illus. 12s.6d.* [*850*

C. Advanced or specialized books

W. Beijerinck. Calluna: a monograph on the scotch heather. *Amsterdam: North-Holland publishing co. 1946. pp.180, 29 pl., figs. 15s.6d.* [*851*

W. Stiles. Trace elements in plants and animals. *C.U.P. 1946. pp.xi.189. 12s.6d.* 'Description of (*a*) the methods of investigating the micro-nutrient problems, (*b*) trace element deficiency diseases in plants, and (*c*) the functions of trace elements in plants and animals.' [*852*

ZOOLOGY

A. Books of general interest. (See also 937)

J. T. Nichols and T. Bartsch. Fishes and shells of the Pacific world. *Macmillan. 1946. pp.202, 16 pl., 83 diagrs. 12s.6d.* [*853*

W. K. Richmond. Wild animals of Britain. (Realms of natural science series.) *O.U.P. 1946. pp.176, 15 illus. 5s.* [*854*

B. Intermediate books. (See also 850, 929, 940)

E. Raymond Hall. Mammals of Nevada. *Berkeley, Calif.: California university press; London: C.U.P. 1946. pp.xii.710, 485 figs., 12 pl. 42s. or $7.50.* [A survey contributed from the Museum of vertebrate zoology, University of California, with description of each species.] [*855*

W. M. Levi. The pigeon. 2nd ed. With a preface by O. Riddle. *Columbia, S. Carolina: R. L. Bryan co. pp.xxxi.512. illus. 55s.* [Chapters include anatomy and physiology, genetics, diseases, parasites, and pests.] [*856*

C. F. A. Pantin. Notes on microscopical technique for zoologists. *C.U.P. 1946. pp.viii.84, 9 figs. 6s.* [Notes for laboratory use, based on the methods found satisfactory in the Department of Zoology at Cambridge.] [*857*

O. S. Pettingill. A laboratory and field manual of ornithology. *Minneapolis: Burgess publishing co. 1946. pp.248, 20 pl. $3.50.* [*858*

L. E. Snelgrove. Queen rearing: beekeeping. *Bleadon, Somerset: Miss I. Snelgrove, The Beeches, Bleadon, Weston-super-mare. 1946. pp.344, 35 pl. 21s.* [*859*

Henry Woods. Palaeontology—Invertebrate. (Cambridge biological series.) 8th rev. ed. *C.U.P. 1946. pp.viii.478, 221 figs. 12s.6d.* [*860*

C. Advanced or specialized books. (See also 852)

E. Liljeblad. Monograph of the family Mordellidae (Coleoptera) of North America, north of Mexico. *Ann Arbor, Mich.: University of Michigan. 1945. pp.229, 7 pl. $2.00.* [*861*

E. A. Steinhaus. Insect microbiology. *Ithaca, N.Y.: Comstock. 1946. pp.755. 52s.6d.* [*862*

MEDICINE

General

B. Intermediate books. (See 826)

Pharmacy and Pharmacology

B. Intermediate books

J. W. Cooper and F. J. Dyer. Dispensing for pharmaceutical students. *Pitman. 1946. pp.554, diagrs. 15s.* [*863*

Public Health

B. Intermediate books

National old people's welfare committee. Old people's welfare. A guide to practical work for the welfare of old people. *The committee. 1946. pp.84. 1s.6d.* 'Including housing schemes and voluntary residential homes.' [*864*

Veterinary Science

B. Intermediate books. (See 856, 939)

C. Advanced or specialized books. (See 942)

ENGINEERING

General

A. Books of general interest

E. Giffen. Engineering research in the university. *O.U.P. 1946. pp.12. 1s.6d.* [*865*

G. G. Smith. Frederick Henry Royce: an outline of his engineering achievement. *The British council. 1945. pp.31. 1s.* [866

B. Intermediate books. (See also 809)

H. Binns. Examples in engineering drawing. Vol. 2; second year course. *Hodder and Stoughton. 1945. pp.79. 6s.* [867

T. H. Burnham. Engineering economics. 5th ed. 2 vols. *Pitman. 1945. pp.322+375. 12s 6d. each volume.* [868

A. Higgins. Boiler room questions and answers. *McG.-H. 1945. pp.149. 18s.* [A collection of examination questions, with answers.] [869

C. Advanced or specialized books. (See also 955, 964)

British welding research association. Report No. T. 16. Technique for the gas welding of magnesium alloys. *The association. 1946. pp.38. 2s.* [870

J. Rodger and R. Hartkopf. High pressure hydraulic control equipment. *Draughtsman publishing co. 1946. pp.66. 2s.* [A clear account of the principles of hydraulic control and the design and operation of the equipment.] [871

J. Treacy. Production illustration: the techniques and applications of perspective engineering drawings. *New York: Wiley; London: C. & H. 1945. pp.202. 24s.* [872

D. Dictionaries, year-books, &c. (See 895, 934)

AERONAUTICAL

A. Books of general interest

J. W. R. Taylor and M. F. Allward. Spitfire. *Leicester: The Harborough publishing co.; London: H. Marshall. 1946. pp.124, illus. 15s.* [873

B. Intermediate books. (See also 795)

C. Froesch and W. Prokosch. Airport planning. *New York: Wiley; London: C. & H. 1946. pp.xi.250, illus. 42s.* [874

G. Geoffrey Smith. Gas turbines and jet propulsion for aircraft. 4th ed. *Flight publishing co. 1946. pp.246, 6 illus., 188 diagrs. 12s.6d.* [875

J. W. Vale, Jr. The aviation mechanic's engine manual. *McG.-H. 1946. pp. 758, illus. 25s.* [876

P. H. Wilkinson. Aircraft engines of the world, 1946. *Pitman. 1946. pp.320, illus. 45s.* [877

D. Dictionaries, year-books, &c.

T. A. Dickinson. Aeronautical dictionary. *New York: Crowell. 1945. pp.484. $3.50.* [878

S. Gerr. Japanese–Chinese–English dictionary of aeronautical and meteorological terms: including aero- and hydrodynamics, airplane construction and stress analysis, propeller theory, internal combustion engines, airports and ground installations, meteorology, with a section in Kana. *New York: Stechert. 1945. pp.439. $8.* [879

J. Stroud. Japanese aircraft. *Leicester: The Harborough publishing co. 1945. pp.63. 25s.* [880

CIVIL

B. Intermediate books. (See also 874, 903, 927)

Harry Parker. Simplified design of structural steel. *New York: Wiley; London: C. & H. 1945. pp.x.226. 16s.6d.* 'Tables are based on U.S. standard structural steel sections.' [*881*

P. A. Valton. Limestone roads. *C. & H. 1946. pp.viii.112, 22 figs., 1 map. 10s.6d.* [Discusses the use of limestone for road surfacing.] [*882*

R. Barnard Way. Contractors' plant and machinery. *Crosby Lockwood. 1946. pp.223, 147 illus. 10s.6d.* 'Should be of considerable help to the student or maintenance man.' [*883*

C. Advanced or specialized books. (See also 975, 977, 978)

R. W. Abbett. Engineering contracts and specifications. *New York: Wiley; London: C. & H. 1945. pp.188. 13s.6d.* 'The author is a civil engineer, and his book deals primarily with the type of contract most used in construction jobs. Whilst based upon American practice, there is much of general application.' [*884*

W. A. Hardenbergh. Water supply and purification. 2nd ed. (International texts in civil engineering.) *Scranton, Pa.: International textbooks co. 1945. pp.488. illus. $4.00.* [*885*

Illinois engineering experiment station. Bulletin No. 363. Slab and beam highway bridges, Part 1, tests of simple-span right I-beam bridges. By N. M. Newmark, C. P. Siess and R. R. Penman. *Illinois: The university. 1946. pp.130. $1.00.* [Laboratory tests on 15 quarter-scale model reinforced concrete bridges.] [*886*

Institution of structural engineers. Standard forms of contracts. Form A, form of contract for the engagement by the Principal of the services of a consulting structural engineer. Form B, form of contract for the engagement by the architect of the services of a consulting structural engineer. *The institution. 1946. pp.4+4. 1s.6d. each.* [*887*

F. G. Royal-Dawson. Vertical curves for roads. *Spon. 1946. pp.153, illus., diagrs. 15s.* [Stresses the different treatment necessary for summit and valley curves, and gives consideration to the question of impact in valley curves.] [*888*

D. Dictionaries, year-books, &c. (See 996)

ELECTRICAL

A. Books of general interest. (See 805)

B. Intermediate books. (See also 807, 811)

D. P. Moreton, C. H. Dunlap, and L. R. Drinkall. Armature winding. *Technical press. 1946. pp.290, 246 illus. 14s.* [*889*

J. Rosslyn. Power transformers. Ed. E. Molloy. 3rd rev. ed. *Newnes. 1946. pp.viii.232, 107 illus. 7s.6d.* [*890*

A. P.-T. Sah. Fundamentals of alternating-current machines. *McG.-H. 1946. pp.xi.466, illus. 25s.* 'Written from the viewpoint of the operating man rather than that of the design engineer.' [*891*

C. Advanced or specialized books. (See also 815, 920, 963)

Illuminating engineering society. I.E.S. code of practice for good lighting of building interiors including recommended values of illumination. *New York: The society. 1945. pp.28. 1s.* [892

M. G. Kendall. Contributions to the study of oscillatory time-series. *C.U.P. 1946. pp.76. 7s.6d.* [893

David Owen. Alternating current measurement at audio and radio frequencies. (Monographs on physical subjects.) 2nd ed. *Methuen. 1946. pp.viii.120, 80 diagrs. 5s.* [894

D. Dictionaries, year-books, &c.

B. H. Tripp, *ed.* The blue book: the electrical and engineering trades directory, 1946. *Benn. 1946. pp.750. 30s.* [895

INTERNAL COMBUSTION ENGINES

B. Intermediate books

E. H. Lewitt. Pitman's heat entropy chart: for engineering students and designers of internal combustion engines. *Pitman. 1946. pp.8. 2s.* [896

C. Advanced or specialized books. (See 933)

MARINE—SHIPS AND SHIPBUILDING

A. Books of general interest

Great Britain. Ministry of information with the approval of the Admiralty. Build the ships: the official story of the shipyards in wartime. Text written by V. S. Pritchett. *H.M.S.O. 1946. pp.63, illus. 1s.* [897

David Masters. When ships go down. *Eyre & Spottiswoode. 1945. pp.356, illus. 7s.6d.* [An account of diving at great depths and of salvage work at sea.] [898

Motor boat and yachting manual. 13th ed. *Temple press. 1946. pp.275. 7s.6d.* [899

D. Dictionaries, year-books, &c.

Journal of commerce annual review 1946 of shipping, ship-building, marine engineering, and kindred subjects during the year 1945. *Liverpool: Chas. Birchall & sons, ltd. 1946. pp.332, illus. 2s.6d.* [900

Francis E. McMurtie, *ed.* Jane's fighting ships, 1944–5 (Corrected to April, 1946). *Sampson Low, Marston & co. 1946. pp.636, illus. 63s.* [901

MECHANICAL

B. Intermediate books. (See also 842, 883)

T. Box. Practical hydraulics. 17th ed. *Spon. 1946. pp.112. 9s.* [902

N. D. Green. A guide to contractors' plant. *Newnes. 1946. pp.255, illus. 15s.* [Choice and maintenance of plant, for civil engineer and building contractors' agents, buyers, and plant engineers.] [903

C. Advanced or specialized books. (See also 956)

Illinois engineering experiment station. Bulletin No. 360. Investigation of the strength of riveted joints in copper sheets. By W. M. Wilson and A. M. Ozelsel. *Illinois: The university. 1946. pp.81. $1.00.* [904

Illinois engineering experiment station. Bulletin No. 361. Residual stresses in welded structures. By W. M. Wilson and Chao-Chien Hao. *Illinois: The university. 1946. pp.78. 75c.* [905

J. Smith. Crankshaft design and manufacture. *Whitehall technical press. 1946. pp.64. 12s.6d.* 'Based upon a series of articles that appeared in "Gas and oil power" during 1943.' [906

L. Tibbenham. The welding of cast iron by the oxy-acetylene process. 2nd ed. *Pitman. 1945. pp.120. 7s.6d.* 'Incorporates recent advances, especially in bronze welding and low temperature welding.' [907

W. P. Turner and H. F. Owen. Machine-tool work: fundamental principles. 2nd. ed. *McG.-H. 1945. pp.364. 18s.* [908

MINING

A. Books of general interest

Great Britain. Department of scientific and industrial research. Rapid survey of coal reserves and production. A first appraisal of results. (Fuel research survey paper No. 58.) *H.M.S.O. 1946. pp.23. 9d.* [909

C. Advanced or specialized books

H. L. H. Harrison. Examination, boring and valuation of alluvial and kindred ore deposits. *Mining publications ltd. 1946. pp.266, illus. 14s.* [910

D. Dictionaries, year-books, &c.

E. G. King, *ed.* The colliery year book, 1946. *Cassier. 1946. pp.994. 25s.* [911

RAILWAY

A. Books of general interest. (See 791, 792)

B. Intermediate books. (See 794)

C. Advanced or specialized books

R. W. Kidner. Early history of the railway locomotive, 1804–1879. *Seaford, Sussex: Oakwood press. 1946. pp.38. 5s.6d.* [912

SANITARY

B. Intermediate books

L. C. C. Rayner. Questions and answers on heating. (Questions and answers series.) *Newnes. 1946. pp.104, 46 diagrs. 5s.* [913

L. C. C. Rayner. Questions and answers on hot water supply. (Questions and answers series.) *Newnes. 1946. pp.96, 31 diagrs. 5s.* [914

C. Advanced or specialized books. (See also 885)

R. K. Cornell. Heating and ventilating for architects and builders. *Elek. 1946. pp.56, illus. 7s.6d.* [915

G. Eric Mitchell. Modern sanitary engineering: sanitation, drainage and water supply. 2nd ed. *Newnes. 1946. pp.192, illus. 12s 6d.* [916

W. J. Ryan. Water treatment and purification. 2nd ed. *McG.-H. 1946. pp.270, 64 figs. 14s.* [917

WIRELESS

A. Books of general interest. (See 805)

B. Intermediate books. (See also 807, 811)

W. H. Cazaly. Radio service test gear: an outline of the principles upon which radio receiver test and measuring instruments operate. *Pitman. 1946. pp.90. 6s.* [918

W. D. Perkins and R. W. Barton. Radio-communications. *Newnes. 1946. pp.256, 184 illus. 12s.6d.* [919

C. Advanced or specialized books. (See also 815, 894, 963)

Bertram S. Cohen. A handbook of telecommunication. Ed. F. G. C. Baldwin. *Pitman. 1946. pp.xl.409, diagrs. 30s.* [920

D. Dictionaries, year-books, &c.

B. B. Babani, *comp.* Radio reference handbook. New ed. *Bernards. 1946. pp.382, illus. 12s.6d.* [921

AGRICULTURE

GENERAL

A. Books of general interest

Great Britain. Ministry of agriculture and fisheries. National farm survey of England and Wales (1941–1943): a summary report. *H.M.S.O. 1946. pp.vi.169. 2s.* [922

Scotland. Department of agriculture. Agricultural survey of Scotland. *H.M.S.O 1946. pp.76. 8s.6d.* [923

Thomas Sharp. The anatomy of the village. *Harmondsworth: Penguin books. 1946. pp.72, illus. 2s.6d.* [This is an attempt to set out in a brief and direct form some of the main principles of village planning.] [924

H. C. Thompson. Asparagus production. *New York: Judd publishing co. 1946. pp.124, 12 figs. $1.50.* [925

B. Intermediate books. (See also 748, 751, 831, 850, 856, 859, 939)

Claude B. Hutchinson, *ed.* California agriculture. By members of the Faculty of the College of agriculture, University of California. *Berkeley, Calif.: University press: London: C.U.P. 1946. pp.vii.444, 23 figs., tabs., pl. $5.00 or 27s.6d.* 'An inclusive volume about soils, crops, livestock and the protection of plants and animals against pests and diseases, together with the earlier history of Californian agriculture and a discussion of social and economic conditions.' [926

Orson W. Israelsen. Irrigation principles and practice. *New York: Wiley; London: C. & H. 1945. pp.xiv.422, 174 figs., 8 pl., 34 tabs. 31s.* [927

B. A. Keen. The agricultural development of the Middle East. *H.M.S.O. 1946. pp.xii.126. 15 pl., 2 col. maps. 5s.* [928

R. O. B. Manley. Honey farming. *Faber. 1946. pp.293, 28 photographs, 8 figs. 18s.* 'Aspects discussed include knowledge, capital, climate, honey plants, apiaries, breeding bees, swarm control, harvest, and diseases and pests.' [929

J. P. Maxton. The control of husbandry: a discussion of the future of the War agricultural executive committees. *Oxford: Institute of agrarian affairs. 1946. pp.48. 3s.6d.* [930

James Small. pH and plants: an introduction for beginners. *Ballière. 1946. pp.vi.216, 16 figs. 12s.6d.* [931

J. A. Watson and J. A. More. Agriculture: science and practice of British farming. 8th ed. *Edinburgh: O. & B. 1945. pp.viii.883. 20s.* [932

C. Advanced or specialized books. (See also 942)

National institute of agricultural engineering. The farm tractor. Rev. ed. *H.M.S.O. 1946. pp.40. 9d.* [933

D. Dictionaries, year-books, &c:

Sir. R. G. Stapledon, *ed.* Farming and mechanized agriculture, 1946. *Todd. 1946. pp.492. 21s.* [934

AGRICULTURAL ECONOMICS

A. Books of general interest. (See also 770)

T. N. Ramaswamy. Economic stabilization of Indian agriculture. *Benares: Nand Kishore. 1946. pp.xxx.176. 12s.6d.* [935

B. Intermediate books

Lord Hailey. An African survey: a study of problems arising in Africa, south of the Sahara. 2nd ed. *London, New York, and Toronto: Geoffrey Cumberlege, O.U.P. 1945. pp.xxviii.1837. 35s.* [936

C. Advanced or specialized books. (See 966)

DAIRY FARMING AND LIVESTOCK

A. Books of general interest

National sheep breeders' association. British pure-bred sheep. *5 King Street, London, W.C.2: The association. 1946. pp.142, illus. 15s.* [937

B. Intermediate books. (See also 856)

C. P. McMeekan. Principles of animal production. *Melbourne, Auckland, and London: Whitcombe and Tombs, ltd. 1946. pp.243. 15s.* [938

E. J. Perry, *ed.* The artificial insemination of farm animals. *New Brunswick: Rutgers university press. 1945. pp.265. $3.50.* [939

W. D. Wyman. The wild horses of the West. *Caldwell, Idaho: Caxton printers ltd. 1945. pp.348, illus. $3.50.* 'Minutely documented and indexed account from the 16th century to the present day.' [940

C. Advanced or specialized books

F. H. Garner. British dairying. *Longmans. 1946. pp.263, illus. 21s.* [941

A. Walton. Notes on the technique of artificial insemination. *Holborn surgical instrument co., ltd. 1945. pp.32. 1s.* 'A guide to the care and use of the instruments catalogued.' [942

FORESTRY

B. Intermediate books

A. Bruce Jackson. The identification of the conifers. *Edward Arnold. 1946. pp.vii.152, 48 figs. 9s.* [943

C. Advanced or specialized books

Department of scientific and industrial research: forest products research. A handbook of woodcutting. By P. Harris. *H.M.S.O. 1946. pp.44, illus., pl. 9d.* [944

HORTICULTURE AND MARKET GARDENING

A. Books of general interest

W. Dallimore. The pruning of trees and shrubs. New ed. *Oxford: Dulau. 1945. pp.99, 13 illus. 7s.6d.* [945

C. M. Taylor. Roses: their culture and management. *2 Tavistock St., London, W.C.2: Collingridge. 1945. pp.152. 8s.6d.* [946

B. Intermediate books

C. H. Oldham. The cultivation of berried fruits in Great Britain. *Crosby Lockwood. 1946. pp.370, 41 illus. 21s.* [947

C. P. Quarrell. Intensive salad production. 3rd ed. *Crosby Lockwood. 1945. pp. 250, illus. 15s.* [948

P. Work. Vegetable production and marketing. *New York: Wiley; London: C. & H. 1945. pp.559, illus. $2.75.* [949

D. Dictionaries, year-books, &c.

H. V. Taylor. Apples of England. Rev. ed. *Crosby Lockwood. 1946. pp.203, 36 col. illus. 30s.* [950

SOIL SCIENCE

A. Books of general interest

W. Shepard. Food or famine. The challenge of erosion. *Macmillan. 1945. pp.xi.225. 12s.6d.* 'A summary of the problems of soil erosion and their effect on the world's food supply, dealing not so much with the past as with the possibilities of the future.' [951

G. T. Wrench. Reconstruction by way of the soil. *Faber. 1946. pp.262. 12s.6d.* 'The subject is treated in a broad way and the works of many living authors are quoted.' [952

B. Intermediate books. (See 931)

METALLURGY

C. Advanced or specialized books. (See also 870, 907)

J. L. Bray. Ferrous production metallurgy. *New York: Wiley; London: C. & H. 1946. pp.viii.457. 24s.* [953

L. W. Eastwood. Gas in light alloys. *New York: Wiley; London: C. & H. 1946. pp.x.99, 34 figs. 15s.* [954

U. R. Evans. Metallic corrosion, passivity and protection. 2nd ed. *Edward Arnold. 1946. pp.863. 50s.* [955

Charles Willers Briggs. The metallurgy of steel castings. *McG.-H. 1946. pp.633, illus. $6.50.* [956

MANUFACTURES AND RAW MATERIALS

LEATHER

A. Books of general interest

H. Pearl Adam. British leather: a record of achievement. *Batsford. 1946. pp.82, 78 illus., some col. 12s.6d.* [957

G. E. O'Brien and R. Andrews. Looking at leather. *Staples press. 1946. pp.64, illus. 10s.6d.* [958

B. Intermediate books

Great Britain. Ministry of supply. A study of substitutes for leather. *H.M.S.O. 1946. pp.82, 19 illus. 2s.6d.* [959

PAINT

B. Intermediate books

R. H. Wampler. Modern organic finishes: their application to industrial products. *New York: Chemical publishing co. 1946. pp.xii.452, illus. 51s.* [960

PLASTICS

A. Books of general interest

H. A. Taylor. Plastics explained. *Mitre press. 1946. pp.146, pl. 8s.6d.* [961

B. Intermediate books

J. Sasso and N. A. Brown. Plastics in practice. *McG.-H. 1946. pp.185, pl. 20s.* [962

C. Advanced or specialized books

W. J. Tucker and R. S. Roberts. Plastics for electrical and radio engineers. *Technical press. 1946. pp.148. 12s.* 'On the choice of plastics in electrical applications—the advantages and limitations of various kinds of materials.' [963

D. Warburton Brown. Handbook of engineering plastics. *Newnes. 1946. pp.270. 17s.6d.* [964

D. Dictionaries, year-books, &c.

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THE YEAR'S WORK OF ASLIB, 1946–7

(A report to be presented at the Annual General Meeting held at Canterbury Hall, Cartwright Gardens, London, W.C. 1, on 19 September 1947)

THE review of Aslib's work given at the 1946 Conference reported a period of rapid growth and reorganization. Both these processes have continued during the year now under consideration and seem likely to continue for some years to come. No sooner does a fresh development become assimilated into the organization than it forms the vantage point from which new projects can be surveyed and considered.

This constant exploration of fresh fields, however, has in no way been allowed to upset the direct services of the Association to its members: a fact well illustrated by a few figures concerning the day-to-day activities of the head office. The incoming and outgoing mail together, for example, has now reached the formidable total of at least 35,000 items per year—say 40 per member, or over a hundred per working day, and this, of course, takes no account of telephone calls. 2875 enquiries were dealt with by the Information Section during the year, 79 requests for translations were received, 413 items were sent on loan to members from Aslib's own collection of books and periodicals, and orders were received for the location and photographic reproduction of over 700 items. Members who have followed Aslib's course during the war years will realize that these figures indicate very rapid development since 1941 when, from the staff point of view, Aslib was still a 'one-man show'.

In addition to its three periodical publications and the Annual Conference Report, Aslib published during the year J. H. P. Pafford's *Books and Army Education*, a *Catalogue of Films of General Scientific Interest*, the second edition of J. E. Wright's *Manual of Special Library Technique*, two reports of one-day conferences held in 1946, an index to the Annual Conference Reports 1924–45, and two reprints of articles first appearing in *The Journal of Documentation*. The Northern Branch held a one-day conference at Liverpool in October 1946 and another at Sheffield in March 1947; Dr. W. E. Batten demonstrated his adaptation of the punched-card system to Aslib members in May, and in June a number of experts were invited to attend a meeting to discuss the application of mechanization to libraries and technical information services. A Study Group on special librarianship was organized in August 1946, and a course of lectures on the same subject was given from April to June 1947. In addition, the Conference and Education Committee circulated to members a questionnaire on the existing facilities for special librarianship training, the answers to which helped in the drawing up of recommendations to be made to the Library Association regarding the syllabus for the examination of those who are working in non-public libraries. Lastly, but not least, Aslib was directly

represented on various bodies concerned with national and international aspects of documentation.

All these activities were guided by the President, Council, and Committees whose work is now described in greater detail.

The President

Those who attended the 1946 Conference will remember Sir Reginald Stradling's presidential address on the place of the intelligence group in the technical team. The interest which he displayed then in Aslib's development has been actively maintained throughout the year and, in spite of his many preoccupations, Sir Reginald has always been ready to give his support when needed. It is with very real gratitude that Aslib learns that he is willing to continue as President for another year.

The Council and Standing Committee

A full list of the Council for 1946–7 was printed in the *Report of Proceedings of the Twenty-first Conference 1946* and also in the November 1946 issue of *Aslib Information*. Unfortunately, Mr. Francis Hughes had to resign early in 1947, since he found that he would be abroad so much that he would not be able to attend meetings. Aslib is very grateful for his past services—he was one of those whose faith in its future and active interest did much to promote its reorganization during the war years.

Mr. J. G. Pearce is retiring from the Council at the end of the year after continuous membership of it since the inauguration of the Association in 1924. In fact it was largely due to his efforts that Aslib came into being. In token of their appreciation of all that he has done for the organization, the Council unanimously agreed to make Mr. Pearce an Honorary Member. We hope that he will return to active participation in the task of guiding Aslib when he foresees sufficient easing up of his present responsibilities to enable him to attend meetings.

Aslib's activities have now enlarged to such an extent that it is no longer practical for the Council to concern itself directly with all details. On the recommendation of the Policy Committee which was appointed in 1946 it was agreed that the full Council of thirty should meet four times a year, and that a Standing Committee should be appointed to carry out the preparatory and advisory work requested by the Council, to supervise the finances of the Association, and to assist the Director in carrying out day-to-day work. This committee includes *ex officio* the chairmen of the three main committees and so is able to co-ordinate Aslib's work as a whole. Members of the Standing Committee for 1946–7 were: Mr. C. Le Maistre (Chairman of Council), Mr. T. M. Herbert (Hon. Secretary), Miss I. Shrigley (Hon. Treasurer), Mr. B. Agard Evans (Chairman of the Publications and Editorial Committee), Mr. B. Fullman (Chairman of the Conference and Education Committee), Mr. R. H. Hill (Chairman of the Information Committee), Mr. O. F. Brown, and Mr. A. E. Cummins.

The above reorganization did not take place till October 1946 so

that in the twelve months under review the full Council in fact met six times and the Standing Committee held three meetings.

A full list of the Council for the ensuing year, 1947–8, will be printed in the 1947 Conference Report.

Amalgamation of Aslib and the B.S.I.B.

At the 1946 Annual General Meeting it was proposed and unanimously agreed that a special joint committee should be set up to work out the method by which Aslib and the British Society for International Bibliography could be brought together in closer co-operation or possible coalescence. This joint committee, consisting of Mr. C. Le Maistre, Mr. B. Agard Evans, Mr. T. M. Herbert, Professor R. S. Hutton, Mr. R. L. Sheppard, Miss I. Shrigley, and the Director, for Aslib, and of Dr. S. C. Bradford, Mr. R. A. Fairthorne, Mr. H. Hyams, Mr. C. Lakin Smith, Mr. J. F. Stanley, and Mr. J. E. Wright, for the British Society for International Bibliography, started its work in January 1947. The following principles of amalgamation were circulated to the membership of both bodies and were accepted unanimously by the British Society for International Bibliography at a Special General Meeting on 15 April 1947. They were also accepted, *nem. con.* and with one abstention, by Aslib members at an Extraordinary General Meeting held on 18 April 1947.

Principles of Amalgamation

1. That the amalgamation of the British Society for International Bibliography and the Association of Special Libraries and Information Bureaux shall take the form of complete coalescence of the two bodies.
2. That the objects of the new organization shall comprise those of the two component bodies.
3. That the name of the new organization shall be registered as 'Aslib'. This term should be a code word, and should not be considered in any way to comprise the initials of any Society or Association. The letter-heading of the new organization shall be suitably arranged to include reference to both present organizations.
4. That the British Society for International Bibliography and the Association of Special Libraries and Information Bureaux shall, as found necessary, wind up their present affairs separately before entering the new single corporate body.
5. (*a*) That the new organization Aslib undertakes to accept all members of the British Society for International Bibliography who are not also members of the Association of Special Libraries and Information Bureaux at their present B.S.I.B. subscription rates.

   (*b*) That members of the British Society for International Bibliography who are also members of the Association of Special

Libraries and Information Bureaux shall be required to pay to the new organization their Association of Special Libraries and Information Bureaux subscription only.

(c) That, as from the date of their Special General Meeting, 15 April 1947, no new members shall be enrolled by the British Society for International Bibliography, applicants after that date being informed of the proposed amalgamation and advised to join Aslib.

It was also agreed:

That for the first year of its existence, and for that year only, the Council of the new organization should consist of the Council of each body, sitting together.

That the first President of the new organization should be the present President of Aslib for the remainder of his term of office (two years).

A sub-committee consisting of Mr. C. Le Maistre, Mr. T. M. Herbert, Dr. S. C. Bradford, and Mr. R. A. Fairthorne was appointed to prepare a draft of the constitution of the new joint organization. In this work care has been taken to incorporate as far as possible those alterations to the present *Memorandum and Articles of Association of Aslib* which were recommended at the 1946 Aslib Annual General Meeting. It is hoped that the full legal process for the amalgamation, including the submission of the new constitution to members and the liquidation of both present bodies, may be completed by the end of December 1947.

Finance

The audited accounts for the year ended 30 June 1947 have been circulated to all members and will be presented for acceptance at the 1947 Annual General Meeting. This year income has only just met expenditure. Aslib's increasing activities required more staff and equipment which in turn necessitated the conversion of the front basement room and the ground-floor kitchenette into further office accommodation. (Accommodation is still one of Aslib's most desperate problems but the general building situation is such that there is little hope that a move to larger premises can be made for at least another year.) There have been other corresponding increases in expenditure and, in addition, the cold spell in 1947 froze the entire office and resulted in burst pipes and subsequent damage by flooding. On the other hand, again this year, in accordance with previous custom, no notice has been taken in the accounts of the stock of Aslib publications, the value of which is now considerable.

What Aslib now needs financially more than anything else is some form of capital endowment. Dependent as it is on membership subscriptions, the grants from the Department of Scientific and Industrial Research and the British Council, and the proceeds of the sales of its publications, it is impossible for it to build up a fund with which to equip larger premises (if it could secure them) or to start on any project which involves substantial outlay before returns can be expected. If

it were to economize any further it would have to reduce the value of its services to members which in turn would check membership and so reduce income. The only way out of the vicious circle appears to be a disinterested benefactor who will endow the organization without attaching obligations to develop any special activity which would disturb that balance of growth which Aslib is now trying to achieve. In this connexion a debt of special gratitude is owed to the Department of Scientific and Industrial Research which grants aid to Aslib although Aslib's activities are not confined to science or industry. We scarcely dare to expect the benefactor but—miracles do happen!

Membership

Membership had increased to 827 on 30 June 1947, as against 712 in 1946 and 530 in 1945. It is encouraging to note the many overseas members who have joined and, in particular, the building up of membership in the Dominions and India. It is hoped to bring out an up-to-date list of members soon after amalgamation with the British Society for International Bibliography has taken place.

Northern Branch

There have been some delays in the completion of the formal arrangements for a Northern Branch, the idea of which was approved in principle at the meeting at Manchester on 8 May 1946. This has largely been because in drafting the constitution it has been desirable to bear in mind the possible subsequent formation of other branches and to make the relations between such branches and the main organization as flexible as possible. It has already been accepted that the area 'Northern Branch' should be taken to include Yorkshire, Nottinghamshire, Leicestershire, Warwickshire, Gloucestershire, and all counties north and west of these. Any member situated in that area can ask to be included in the Branch membership. In the meantime absence of a formal constitution has not deterred Northern members from continued activities, and very successful one-day conferences were held at Liverpool on 18 October 1946 and at Sheffield on 27 March 1947. These were reported in *Aslib Information.*

Conferences and Meetings

The 1946 Annual Conference was held at the Polytechnic, Regent Street, London, during the week-end 14–15 September. A full account is given in the *Report of Proceedings of the Twenty-first Conference 1946.*

In addition to the two meetings arranged by the Northern Branch and mentioned above, Aslib was responsible for three other meetings during the year. The first was on 15 May 1947 when a meeting to discuss some of the problems arising from the present grave shortage of British books was held under the auspices of Aslib and the Association of Scientific Workers. Mr. L. J. F. Brimble, one of the joint editors of *Nature*, was in the Chair, and the meeting was attended by eighteen other representatives of publishing, bookselling, educational, and

research interests. The discussion was informative and it was agreed to prepare a memorandum which could form a definite and authoritative statement to support all those striving for a better distribution of paper supplies. Various unforeseen causes delayed the preparation of this memorandum but a good deal of material for it has been assembled.

On 28 May Dr. W. E. Batten of I.C.I. Ltd., Plastics Division, gave a most interesting demonstration of his adaptation of the punched-card system to Patent Abstracts. Some eighty to ninety persons were present.

The third was at the Royal Society on 24 June when, at the request of the Department of Scientific and Industrial Research, Aslib convened a meeting of some thirty experts to consider the application of mechanization to libraries and technical information services. Aslib was then asked to form a clearing-house for information on mechanization and related problems and an independent committee was set up to advise and co-operate with Aslib on problems connected with mechanization.

The following agreed to serve on the Conference and Education Committee for 1946–7: Mr. B. Fullman (Chairman), Mr. R. Brightman, Miss M. Couldrey, Miss M. Gosse, Miss B. Kyle, Mr. E. R. McColvin, Dr. V. E. Parke, Miss I. M. Shigley, and Mr. G. Woledge. Mr. A. E. Cummins was co-opted to serve with the Education Sub-Committee, and Mr. D. V. Arnold was co-opted to serve with the Conference Sub-Committee.

Lecture Courses

A week's Study Group on Special Librarianship was held in August 1946 at which about seventy students attended and, in addition to morning and evening lectures, were taken to visit a number of libraries of particular interest. The course was repeated in August 1947.

Several Aslib members lectured for the University of London School of Librarianship, particularly in connexion with the course of evening lectures on special Librarianship which was open to part-time students and so fulfilled a long-felt want. The responsibility for organizing this set of lectures was shouldered by Mr. B. Fullman.

Aslib itself organized a set of ten lectures on subjects connected with work in non-public libraries and information bureaux during April, May, and June 1947. These were well attended and many thanks are due to the lecturers who spared neither time nor trouble for this purpose.

Aslib receives fairly frequent requests from overseas members for copies of lectures given during these courses. Unfortunately the compilation of notes for a spoken lecture is much less onerous than the preparation of a manuscript for printing. Our lecturers are all extremely busy people and in most cases they cannot give this extra time, but wherever possible Aslib is now trying to make the reference material compiled for lectures available to members through one or other of its publications.

The Training of Special Librarians and Information Officers

One of the most important pieces of work undertaken by the Conference and Education Committee during the year has been the examination of the facilities now existing for training workers in non-public libraries and information bureaux and of the qualifications which are needed in this career. A sub-committee of four, Mr. B. Fullman, Mr. A. E. Cummins, Dr. V. E. Parke, and Mr. G. Woledge, held a number of meetings and have examined the matter in detail. Members will remember that, early in 1947, a questionnaire was circulated by Aslib asking how far the existing facilities for training supplied the qualifications which they considered to be desirable for workers in non-public libraries. About 150 replies were received, the majority, as might be expected, being from government or industrial libraries. Amongst these there was a very high proportion of agreement that the syllabus for the examinations held by the Library Association was too heavily weighted on the public library side, particularly in such subjects as library administration, and had too much emphasis on the possession of detailed knowledge of literature in the restricted sense of the word. This proved the existence of a well-defined need affecting at least certain sections of the Aslib membership, and in view of this the committee examined a number of suggestions for an 'ideal' syllabus for the librarian in the non-public library. Recommendations based on these are being forwarded to the Library Association in the hope that it will give them favourable consideration. The problem of defining a suitable standard of education and training for the information officer, as apart from the librarian, is still under consideration by the committee.

Publications

The following agreed to serve on the Publications and Editorial Committee for 1946–7: Mr. B. Agard Evans (Chairman), Mr. J. J. Eaton, Mr. L. M. Harrod, Professor R. S. Hutton, Mr. W. R. Le Fanu, Dr. R. S. Schultze (Hon. Editor of the *Aslib Book-List*), Mr. G. Woledge, and Mrs. A. M. Whitrow. The last-mentioned acted as Hon. Secretary to the Committee until ill health caused her resignation early in 1947.

Mr. Theodore Besterman, General Editor and Chairman of this Committee since 1944, left to become Counsellor, Bibliographical and Library Centre of Unesco, in August 1946. Fortunately he was able to continue his work of Editor of *The Journal of Documentation* until the end of volume II (March 1947). Since then the Director has taken over the duties of Acting Editor, assisted by an Advisory Editorial Board appointed by the Aslib Council. The present members of the Board are: Mr. F. C. Francis, M.A., F.S.A., British Museum, Dr. J. Urquhart, B.Sc., Ph.D., Science Museum Library, and Mr. G. Woledge, B.A., A.L.A., British Library of Political and Economic Science. Members of Aslib receive the *Journal* free but, in addition, the number of non-member subscribers continues to grow satisfactorily. Volume I has been reprinted and is now available to those who were not subscribers at the start.

There has been a further increase in the circulation of the *Aslib Book-List* and the Committee have under consideration ways in which its usefulness to members may be still more increased. Mr. D. V. Arnold has kindly consented to act as Hon. Assistant Editor for the *Book-List*.

The bulletin, *Aslib Information*, has been enlarged to a four-page monthly and has been found to be an increasingly useful medium for the communication to members of a type of information which would not be suitable for the *Journal*.

The Catalogue of Films of General Scientific Interest Available in Great Britain, which was compiled by the Scientific Film Association, was published by Aslib in September 1946. It sold so well that a further reprint had to be made within a short period. A companion publication on medical films is in the press and should be ready by the end of 1947.

A second edition of the *Manual on Special Library Technique*, by Mr. J. E. Wright, was published in November 1946 and over half the edition has already been sold.

Books and Army Education 1944–1946; Preparation and Supply, by Mr. J. H. P. Pafford, Goldsmiths' Librarian of the University of London, was published in March 1947, being an account of the method by which books and libraries were selected, obtained, and distributed for the Army Education Scheme in the release period after the war.

Music Publishers' Numbers. A Selection of Dated Lists, 1710–1900, by Dr. Otto Erich Deutsch, was published in March 1947. This was a reprint of two articles in *The Journal of Documentation* (vol. I, no. 4, and vol. II, no. 2) supplemented by an introductory note, a list of publishers, and a list of places mentioned in the text.

A List of Medical Libraries and Information Bureaux in the British Isles, compiled by Mr. W. R. Le Fanu, was also offprinted from *The Journal of Documentation* (vol. II, no. 3), thus making available to a wider public a most useful reference tool.

The *Report of Aslib Meeting on Indexing and Filing of Unpublished Material, 15 February 1946*, was published in August 1946 and has sold steadily ever since. It contains a great deal of useful information on a subject of which the importance in the smooth and efficient running of information bureaux has seldom been sufficiently recognized.

The *Report of Aslib Meeting on Planning and Equipment of Special Libraries, 6 April 1946*, was published in May 1947. Papers given both at this and at the February meeting on indexing and filing originally appeared in *The Journal of Documentation*, but in their separate form are supplemented with accounts of the discussions which took place at the end of each session. The account of the third of these 1946 meetings, that on industrial information services held in Manchester on 8 May 1946, was delayed by a series of accidents but has now appeared.

A useful supplement to the series of *Reports of Proceedings* of the annual Aslib conferences is the *Author and Subject Index to Vols. I–XX, 1924–45*, which was published in April 1947 and which provides a key to the wealth of material of permanent reference value contained in these reports.

Aslib has suffered to the full all the exasperating delays and uncertainties which beset publishing in these days. Nevertheless, the Publications and Editorial Committee continues to press forward with enthusiasm and a number of new publications are planned for the next twelve months.

Information and Library Section

Figures quoted in the introductory paragraphs of this report show how the work of the Information and Library Section of Aslib has increased in the year under review. A rough analysis of the type of inquiry received showed that about a third concerned the location of books and periodicals, mainly foreign publications. Next highest came requests for sources of information and for short bibliographies on special subjects.

An interesting development during the year has been the greatly increased use by members of Aslib's own collection of books and periodicals. The publication of *Aslib Information* monthly makes it possible to notify the more interesting items received by Aslib, mainly through the generosity of its friends, and also allows room for a brief reference to recent papers appearing in periodicals. In connexion with the quarterly survey of documentation now published in the *Journal* Aslib has been able to enter into exchange relations with several publishing organizations and has also the help of a number of Aslib members who draw attention to articles of interest appearing in periodicals not likely to be seen by the Aslib staff. Thus articles on the use of punched-card systems are scattered through a wide range of chemical, medical, and engineering literature, but where possible Aslib obtains reprints or photostat copies of the more important items which then become available to Aslib members. In particular, Aslib is trying to build up a good collection of current material on microphotography and on punched cards as applied to use in libraries and information bureaux. Aslib's own 'special library' on documentation is in fact growing fast and is raising problems as to its adequate staffing and housing.

Documentary Reproduction

This service is now firmly established and the library of microfilm copies of war-time German periodicals, accumulated through the work of the Aslib Microfilm Service 1942–5, is housed with Aslib, together with a microfilm reading machine. When the rest of the basement can be rehabilitated it is hoped to improve the service still further by the installation of a machine for facsimile copying on the premises.

The documentary reproduction service, which includes the location of the material to be copied, is undertaken for members and non-members all over the world. Where copyright difficulties arise and the publication is found to be available in its original form, this is supplied. Aslib would like to take this opportunity of thanking all those whose co-operation has made the service possible.

British Union Catalogue of Periodicals

Mr. Theodore Besterman, Editor and Executive Officer of the British Union Catalogue of Periodicals since its beginning, had to resign in August 1946 when he left England to take up a post with Unesco. Work on the Catalogue has, however, continued under his successor, Dr. Alfred Loewenberg, and a report of progress will be printed in the 1947 conference report.

Representatives of Aslib on the BUCOP Council for 1946–7 were: Miss J. Barton, Dr. W. Bonser, Mr. A. E. Cummins, and Professor R. S. Hutton.

Relations with Other Organizations

The Director represented Aslib on the Library Committee of the British National Co-operating Body of Unesco and has also served on that body's sub-committee on School Libraries. In addition Aslib has maintained close personal contacts with Mr. Edward Carter and Mr. Theodore Besterman, both former members of the Aslib Council and now Counsellors in the Library Division of Unesco.

Mr. C. Le Maistre, Miss M. Gosset, and the Director represented Aslib at the 16th Conference of the International Federation of Documentation (F.I.D.) at Paris in November 1946. Mr. Le Maistre was then elected President of the F.I.D. for 1946–7 and the Director was elected Chairman of the International Committee on Special Libraries and Centres of Documentation. The same three, with the addition of Dr. S. C. Bradford, will represent Aslib at the 17th Conference of the F.I.D. at Berne in August 1947. The F.I.D. is being formally recognized by Unesco and its constitution is being revised. An interesting development at the Paris conference was the decision to set up two F.I.D. committees on classification, one to deal with the Universal Decimal Classification with which the F.I.D. has always been closely associated, and the other to deal with other types of classification of which, according to its constitution, the F.I.D. must also take account. Hitherto the British Society for International Bibliography has acted as the British National Committee of the F.I.D., but the question whether this function will be carried on by the new joint body which will be formed by the amalgamation of Aslib and the B.S.I.B. is still under consideration.

The Director of Aslib was invited to take part in the conference of the International Federation of Library Associations at Oslo in May 1947 but eventually could not go, and her paper was presented by Mr. F. Donker Duyvis of the International Federation of Documentation.

Aslib continued to work closely throughout the year with the Enemy Publications (Requirements) Committee (EPCOM). Mr. Philip May, Assistant to the Aslib Director, acts as Secretary to the Allocations Sub-Committee which decides the priority to be given to claimants when the number of copies of any German publication received for distribution through HMSO falls below the number of libraries desiring that

publication. Aslib has also published on behalf of EPCOM, in mimeographed form, two editions of a list of current German periodicals, and is associated with strong representations being made against the present high prices charged for German publications.

Aslib continues to be represented on the committees of the British Standards Institution which are concerned with documentation and with the publication of the English edition of the Universal Decimal Classification.

Co-operation with the British Society for International Bibliography has been close throughout the year and work on the proposed amalgamation with this organization has already been described.

Through its connexion with the Department of Scientific and Industrial Research Aslib has been represented at meetings concerned with international abstracting and other problems of documentation.

Other organizations on which Aslib is represented are the National Central Library (Mr. B. Fullman) and the National Book League (Mr. Francis Hughes and, later, the Director).

Surveying the year's progress by Aslib, it appears that there is no end to the tasks which Aslib could usefully perform, particularly in its dual function as a clearing-house for information and as a link through which experiences in different fields may be usefully exchanged. The problem is not one of discovering new fields of enterprise but rather that of choosing, between the many that are offered, those which can be most usefully attempted at Aslib's present stage of development. This choice must be largely governed by availability of trained staff to handle any new extension of services and by the size of the office premises. The staff position has been very much strengthened by the appointment during the year of an Assistant to the Director (Mr. Philip May) and of a whole-time Editorial Assistant (Miss A. Gillard), but the office accommodation presents a more intractable problem. This is why, reluctantly, Aslib must sometimes refuse to undertake ventures proposed by members. The Council and Committees welcome practical suggestions for the extension of Aslib's services, but it is hoped that if these are not put into effect immediately members will realize that it is not inertia but sheer overcrowding which is usually the cause.

This report must close, as always, with a tribute of sincere gratitude to those who by service on Council or Committees or in countless other ways have contributed to Aslib's progress and welfare. Without their co-operation and support Aslib could never have reached its present position, and its future success is equally dependent upon their continued co-operation.

E. M. R. Ditmas
Director